

# Transformers



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# Transformers

## Introduction

### Overview

#### Single-phase transformers



4AM



4AT



4BT



4AX24

4AT for the  
supply of medical  
premises

4FK



4CH

Version	Rated power kVA	Rated input voltage V AC	Rated output voltage V AC	Protection class	Page
<b>4AM, 4AT safety, isolating, control and mains transformers</b>					
<b>4AM safety (mains transformers) and control transformers</b>					
With one input voltage	0.063 ... 1.0	230 ± 5 %; 400 ± 5 %; 440 ± 5 %; 500 ± 5 %	24; 42	I	10/6
For European voltages	0.063 ... 1.0	400/230 ± 15 V	24; 42	I	10/14
In multi-voltage version	0.063 ... 1.0	550 ... 208; 600 ... 230	24; 42	I	10/16
<b>4AM safety transformers (mains transformers)</b>					
With one input voltage	0.025 ... 0.04	230 ± 5 %; 400 ± 5 %; 440 ± 5 %; 500 ± 5 %	24; 42	I	10/20
<b>4AM, 4AT isolating, control and mains transformers</b>					
4AM and 4AT with one input voltage	4AM: 0.063 ... 2.5; 4AT: 4 ... 10	230 ± 5 %; 400 ± 5 %; 440 ± 5 %; 500 ± 5 %	110; 2 × 115; 230	I	10/24
4AM and 4AT with one input voltage, Without <b>cFLus</b>	4AM: 0.063 ... 2.5; 4AT: 4 ... 10	660 ± 5 %; 690 ± 5 %	230	I	10/37
4AM for European voltages	0.063 ... 2.5	400/230 ± 15 V	2 × 115	I	10/39
4AM and 4AT in multi-voltage version	4AM: 0.063 ... 2.5; 4AT: 4 ... 10	550 ... 208; 600 ... 230	2 × 115	I	10/40
<b>4AM isolating and mains transformers</b>					
4AM with one input voltage	0.025 ... 0.04	230 ± 5 %; 400 ± 5 %; 440 ± 5 %; 500 ± 5 %	110; 230	I	10/42
4AM and 4AT with one input voltage, Without <b>cFLus</b>	0.025 ... 0.04	660 ± 5 %; 690 ± 5 %	230	I	10/46
<b>4AM, 4AT transformers with selectable voltages</b>					
4AM and 4AT safety, isolating, control and mains transformers and autotransformers	4AM: 0.025 ... 2.5; 4AT: 4 ... 16	Selectable; 4AM: 12 ... 690 <sup>1)</sup> ; 4AT: 24 ... 690 <sup>1)</sup>	Selectable; 4AM: 12 ... 690 <sup>1)</sup> ; 4AT: 24 ... 690 <sup>1)</sup>	I	10/47
<b>4BT power transformers</b>					
4BT transformers with selectable voltages	18 ... 250	Selectable; 100 ... 1000 <sup>1)</sup>	Selectable; 100 ... 1000 <sup>1)</sup>	I	10/50
<b>4AX22, 4AX23 safety transformers</b>					
Resin-enclosed	0.1 ... 1	230	24; 42	II	10/51
<b>4AX24 isolating transformers</b>					
Resin-enclosed	0.16 ... 2.5	230	230	II	10/53
<b>4AT isolating transformers</b>					
For supply of medical premises	2.5 ... 8	230	230-115	I	10/54
<b>4FL, 4FK voltage regulators</b>					
4FL transformer type	2.2 ... 63	230	230	I	10/55
4FK magnetic type	0.12 ... 0.75 1 ... 2.5 3.15 ... 10	230/selectable 110 ... 500 230/selectable 110 ... 500 400/selectable 110 ... 500	230/selectable 110 ... 500 230/selectable 110 ... 500 230/selectable 110 ... 500	I I I	10/56 10/56 10/56
<b>4CH, 4CP variable-ratio transformers</b>					
4CH toroidal-core variable-ratio transformers	0.28 ... 3.22 0.69 ... 3.22	400 230	0 ... 230 stepless 0 ... 230 stepless	I I	2) 2)
4CP pillar-type variable-ratio transformers	13.8 ... 207	400	0 ... 400 stepless	I	2)

<sup>1)</sup> **cFLus** max. 600 V.

<sup>2)</sup> For more information see the interactive Catalog CA 01 and Mall.

## Three-phase transformers



Version	Rated power kVA	Rated input voltage V AC	Rated output voltage V AC	Protection class	Page
<b>4AP, 4AU safety, isolating, control and mains transformers</b>					
<b>4AP, 4AU isolating, control and mains transformers</b>					
4AP and 4AU in two-voltage version	0.63 ... 16	Y 500-400 /Δ 289-230	Y 400/Δ 230	I	10/58
4AP and 4AU in multi-voltage version	0.63 ... 16	Y 520 ... 360 /Δ 300 ... 208	Y 400/Δ 230	I	10/59
<b>4AP isolating and mains transformers</b>					
In two-voltage version	0.16 ... 0.4	Y 500-400 /Δ 289-230	Y 400/Δ 230	I	10/60
<b>4AP, 4AU transformers with selectable voltages</b>					
4AP and 4AU safety, isolating, control and mains transformers and autotransformers	4AP: 0.16 ... 5; 4AU: 6.3 ... 16	Selectable; 4AP: 12 ... 690 <sup>1)</sup> ; 4AU: 24 ... 690 <sup>1)</sup>	Selectable; 4AP: 12 ... 690 <sup>1)</sup> ; 4AU: 24 ... 690 <sup>1)</sup>	I	10/61
<b>4BU power transformers</b>					
4BU matching transformers With one input voltage	18 ... 180 <sup>2)</sup>	Δ 400, 400 ± 5 %, 440, 440 ± 5 %, 480, 480 ± 5 %/ Y 400, 400 ± 5 %, 440, 440 ± 5 %, 480, 480 ± 5 %	Y 208, 400	I	10/64
4BU matching transformers With <b>cTALUS</b> approval With one input voltage	18 ... 180 <sup>2)</sup>	Δ 400, 400 ± 5 %, 440, 440 ± 5 %, 480, 480 ± 5 %/ Y 400, 400 ± 5 %, 440, 440 ± 5 %, 480, 480 ± 5 %	Y 208, 400	I	10/74
4BU transformers with selectable voltages	18 ... 400	Selectable 100 ... 1000 <sup>1)</sup>	Selectable 100 ... 1000 <sup>1)</sup>	I	10/84
<b>4AP, 4AU autotransformers</b>					
For matching purposes according to EN 61558-2-13	4AP: 5 ... 22.5; 4AU: 12.5 ... 50	4AP, 4AU: 480 ... 380 4AP, 4AU: 480 ... 400 (380) <sup>3)</sup>	4AP, 4AU: 400 4AP, 4AU: 230 (220) <sup>3)</sup>	I	10/86
<b>4FL voltage regulators</b>					
4FL transformer type	6.8 ... 190	400	400	I	10/88
<b>4CJ, 4CQ variable-ratio transformers</b>					
4CJ toroidal-core variable-ratio transformers	2.07 ... 9.66	400	0 ... 400 stepless	I	4)
4CQ pillar-type variable-ratio transformers	16 ... 240	400	0 ... 400 stepless	I	4)

1) **cTALUS** max. 600 V.

2) For other ratings up to 400 kVA see the interactive Catalog CA 01 and Mall.

3) Operating with 3 AC 380 V at the input terminals results in an output voltage of 3 AC 220 V.

4) For more information see the interactive Catalog CA 01 and Mall.

## Note



Screw terminals



Cage Clamp terminals



Flat connectors

The terminals are indicated in the selection and ordering data by orange backgrounds.

## Introduction

## Options

**Delivery time classes DT**

The delivery time classes are specified in the selection tables in front of the order numbers.

The standard transport time for Germany is 1 day (see "Explanations" page 4).

The quoted delivery time class is applicable to an order quantity of up to 5 units.

► **Preferred type**

This delivery time class applies with the degree of protection IP00, i. e. these units can be supplied immediately from stock<sup>1)</sup> and will be dispatched within 24 hours. The transport times depend on the destination and the mode of delivery.

Delivery time class B is applicable to an order quantity of 6 units and more.

Delivery time class A

The ordered units will be dispatched within 2 working days.

Delivery time class B is applicable to an order quantity of 6 units and more.

Delivery time class B

The ordered units will be dispatched within 1 week.

Delivery time class C is applicable to an order quantity of 6 units and more.

Delivery time class C

The ordered units will be dispatched within 3 weeks.

Delivery time class D is applicable to an order quantity of 6 units and more.

Delivery time class D

The ordered units, including enclosure and additional options, will be dispatched within 6 weeks.

Delivery time class X

On request.

**Orders for transformers with selectable voltages and magnetic voltage regulators with selectable input and output voltages**

Please send your selection by e-mail with the basic Order No. and the required options specified in plain text to:

[MD\\_Anfrage.aud@siemens.com](mailto:MD_Anfrage.aud@siemens.com)

or by fax to: +49 (0)421/5125 333.

In response you will receive the complete Order No. for completing your order.

**Ordering transformers in customized versions or with special applications**

Inquiries for customized transformers not found in our catalog, for example:

- Toroidal-core transformers
- Associated transformers
- Medium-frequency transformers
- Transformers for converter applications
- Special transformers for rail vehicles
- Special transformers for marine applications and container cranes  
Option: Vibration-resistant, low-noise version (available in enclosure only)
- Special transformers according to EN 60601-1 (VDE 0750) for medical equipment
- High-reactance transformers
- 4CH, 4CP, 4CJ and 4CQ toroidal-core variable-ratio and pillar-type variable-ratio transformers (see the interactive Catalog CA 01 and Mall)
- Transformers for noise-sensitive environments

should be sent by e-mail to:

[MD\\_Anfrage.aud@siemens.com](mailto:MD_Anfrage.aud@siemens.com)

or by fax to: +49 (0)421/5125 333.

In reply you will receive the complete Order No. which should be quoted in your order.

<sup>1)</sup> This is based on commercially available orders – normal order!

## More information

More information about transformers, power supplies, fans, reactors and filters can be found on the Internet at

<http://www.siemens.com/sirius-supplying>

For products and information on

- Reactors and filters, see Catalog LV 60,  
Order No.: E86060-K2803-A101-A4-7600
- For 2CC and 2CQ axial fans, see Catalog LV 65,  
Order No.: E86060-K1865-A101-A1-7600

Transformers for converter systems from Siemens can be found in the following catalogs:

Catalog NC 60, SINUMERIK & SIMODRIVE  
Order No.: E86060-K4460-A101-B2-7600

Catalog DA 65.10, SIMOVERT MASTERDRIVES Vector Control  
Order No.: E86060-K5165-A101-A3-7600

Catalog DA 65.11, SIMOVERT MASTERDRIVES Motion Control  
Order No.: E86060-K5165-A111-A3-7600

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

General data

### Overview

#### 4AM./4AT.. transformers

With the right transformer, the right voltage will be available at any conditions.

Our transformers are the right choice for each application: They work reliably, safely and worldwide under a wide range of different conditions.

The transformers are configured in user-friendly combinations as isolating, control and mains transformers according to EN 61558-2-4, -2-2, -2-1, or as safety, control and mains transformers according to EN 61558-2-6, -2-2, -2-1, or as autotransformers according to EN 61558-2-13 with selectable input and output voltages.

#### Note:

*Mains transformers with  $\leq 50$  V on the output side are, in the case of SIRIUS transformers, always designed as safety transformers.*

Our transformers provide optimal protection through high permissible ambient temperatures up to 40 °C or 55 °C, a high short-time rating in the case of control transformers, fuseless construction and due to its safety standard "Safety inside" EN 61558.

### Benefits

- High short-time rating of the SIRIUS transformers: lower transformer rated power for a large number of contactors
- Suitable for "fuseless construction": The small inrush current means that "circuit breakers for motor protection" can also be used on the primary side
- **cULus** approvals for the USA and Canada: can be used worldwide without any problems
- Comprehensive type spectrum supplied from stock: rapid availability

### Application

In industrial machines, process engineering, heating and air-conditioning equipment, etc., for supplying control and signaling circuits, when:

- Several electromagnetic loads (e. g. contactors) have to be controlled
- Control and signaling devices are used outside the control cabinet
- The operational voltage for the loads differs from the available voltage level
- Voltage matching for machines and installations with electrical isolation or as an autotransformer

Generally for voltage matching of electrical devices, e. g. in communications, medical engineering and domestic appliances.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM safety (mains transformers) and control transformers

#### Overview

- According to EN 61558-2-6, -2-1, -2-2
- **CE** **us**
- $t_a = 40$  °C/B
- AC 50/60 Hz
- Degree of protection IP00, IP23 and IP54



4AM with screw/flat connectors (left) and with Cage Clamp terminals (right)



#### Selection and ordering data

##### With one input voltage

Rated input voltage  $U_{1N}$  230 V  $\pm 5$  %,  
rated output voltage  $U_{2N}$  24 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ <sup>1)</sup> kVA	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version<sup>3)</sup></b>											
0.063	0.19	▶	4AM32 42-4TN00-0EA0		0.240	1.400	B	4AM32 42-4TN00-0EA1		0.240	1.400
0.1	0.31	▶	4AM34 42-4TN00-0EA0		0.260	2.000	B	4AM34 42-4TN00-0EA1		0.260	2.000
0.16	0.49	▶	4AM38 42-4TN00-0EA0		0.320	2.700	B	4AM38 42-4TN00-0EA1		0.320	2.700
0.25	0.85	▶	4AM40 42-4TN00-0EA0		0.590	3.700	B	4AM40 42-4TN00-0EA1		0.590	3.700
0.315	1.12	▶	4AM43 42-4TN00-0EA0		0.670	4.500	B	4AM43 42-4TN00-0EA1		0.670	4.500
0.4	1.44	▶	4AM46 42-4TN00-0EA0		1.100	5.400	B	4AM46 42-4TN00-0EA1		1.100	5.400
0.5	2	▶	4AM48 42-4TN00-0EA0		1.100	7.000	B	4AM48 42-4TN00-0EA1		1.100	7.000
0.63	2.35	▶	4AM52 42-4TN00-0EA0		1.700	7.900		--			
0.8	3.4	▶	4AM55 42-4TN00-0EA0		1.900	11.000		--			
1	5	▶	4AM57 42-4TN00-0EA0		2.000	14.000		--			
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>											
0.063	0.19	▶	4AM32 42-4TN00-0EA0		0.240	1.400	B	4AM32 42-4TN00-0EA1		0.240	1.400
0.1	0.31	▶	4AM34 42-4TN00-0EA0		0.260	2.000	B	4AM34 42-4TN00-0EA1		0.260	2.000
0.16	0.49	▶	4AM38 42-4TN00-0EA0		0.320	2.700	B	4AM38 42-4TN00-0EA1		0.320	2.700
0.25	0.85	▶	4AM40 42-4TN00-0EA0		0.590	3.700	B	4AM40 42-4TN00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-4TN00-0EB0		0.670	4.500	B	4AM43 42-4TN00-0EB1		0.670	4.500
0.4	1.44	B	4AM46 42-4TN00-0EB0		1.100	5.400	B	4AM46 42-4TN00-0EB1		1.100	5.400
0.5	2	B	4AM48 42-4TN00-0EB0		1.100	7.000	B	4AM48 42-4TN00-0EB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-4TN00-0EC0		0.240	2.700	B	4AM32 42-4TN00-0EC1		0.240	2.700
0.09	0.31	B	4AM34 42-4TN00-0EC0		0.260	3.300	B	4AM34 42-4TN00-0EC1		0.260	3.300
0.145	0.49	B	4AM38 42-4TN00-0EC0		0.320	5.600	B	4AM38 42-4TN00-0EC1		0.320	5.600
0.225	0.85	B	4AM40 42-4TN00-0EC0		0.590	6.600	B	4AM40 42-4TN00-0EC1		0.590	6.600
0.268	1.12	B	4AM43 42-4TN00-0EC0		0.670	7.400	B	4AM43 42-4TN00-0EC1		0.670	7.400
0.34	1.44	B	4AM46 42-4TN00-0EC0		1.100	8.300	B	4AM46 42-4TN00-0EC1		1.100	8.300
0.425	2	B	4AM48 42-4TN00-0EC0		1.100	9.900	B	4AM48 42-4TN00-0EC1		1.100	9.900
0.535	2.35	B	4AM52 42-4TN00-0EC0		1.820	10.800		--			
0.68	3.4	B	4AM55 42-4TN00-0EC0		1.900	13.900		--			
0.85	5	B	4AM57 42-4TN00-0EC0		2.000	16.900		--			
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-4TN00-0ED0		0.240	2.700	B	4AM32 42-4TN00-0ED1		0.240	2.700
0.08	0.31	B	4AM34 42-4TN00-0ED0		0.260	3.300	B	4AM34 42-4TN00-0ED1		0.260	3.300
0.128	0.49	B	4AM38 42-4TN00-0ED0		0.320	5.600	B	4AM38 42-4TN00-0ED1		0.320	5.600
0.2	0.85	B	4AM40 42-4TN00-0ED0		0.590	6.600	B	4AM40 42-4TN00-0ED1		0.590	6.600
0.236	1.12	B	4AM43 42-4TN00-0ED0		0.670	7.400	B	4AM43 42-4TN00-0ED1		0.670	7.400
0.3	1.44	B	4AM46 42-4TN00-0ED0		1.100	8.300	B	4AM46 42-4TN00-0ED1		1.100	8.300
0.375	2	B	4AM48 42-4TN00-0ED0		1.100	9.900	B	4AM48 42-4TN00-0ED1		1.100	9.900
0.475	2.35	B	4AM52 42-4TN00-0ED0		1.700	10.800		--			
0.6	3.4	B	4AM55 42-4TN00-0ED0		1.900	13.900		--			
0.75	5	B	4AM57 42-4TN00-0ED0		2.000	16.900		--			

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

4AM safety (mains transformers) and control transformers

With one input voltage

Rated input voltage  $U_{1N}$  230 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  42 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ <sup>1)</sup> kVA	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version<sup>3)</sup></b>											
0.063	0.19	▶	4AM32 42-4TV00-0EA0		0.240	1.400	B	4AM32 42-4TV00-0EA1		0.270	1.400
0.1	0.31	▶	4AM34 42-4TV00-0EA0		0.260	2.000	B	4AM34 42-4TV00-0EA1		0.260	2.000
0.16	0.49	▶	4AM38 42-4TV00-0EA0		0.320	2.700	B	4AM38 42-4TV00-0EA1		0.320	2.700
0.25	0.85	▶	4AM40 42-4TV00-0EA0		0.590	3.700	B	4AM40 42-4TV00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-4TV00-0EA0		0.670	4.500	B	4AM43 42-4TV00-0EA1		0.670	4.500
0.4	1.44	B	4AM46 42-4TV00-0EA0		1.100	5.400	B	4AM46 42-4TV00-0EA1		1.100	5.400
0.5	2	B	4AM48 42-4TV00-0EA0		1.100	7.000	B	4AM48 42-4TV00-0EA1		1.100	7.000
0.63	2.35	B	4AM52 42-4TV00-0EA0		1.700	7.900		--			
0.8	3.4	B	4AM55 42-4TV00-0EA0		1.900	11.000		--			
1	5	B	4AM57 42-4TV00-0EA0		2.000	14.000		--			
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>											
0.063	0.19	▶	4AM32 42-4TV00-0EA0		0.240	1.400	B	4AM32 42-4TV00-0EA1		0.270	1.400
0.1	0.31	▶	4AM34 42-4TV00-0EA0		0.260	2.000	B	4AM34 42-4TV00-0EA1		0.260	2.000
0.16	0.49	▶	4AM38 42-4TV00-0EA0		0.320	2.700	B	4AM38 42-4TV00-0EA1		0.320	2.700
0.25	0.85	▶	4AM40 42-4TV00-0EA0		0.590	3.700	B	4AM40 42-4TV00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-4TV00-0EB0		0.670	4.500	B	4AM43 42-4TV00-0EB1		0.670	4.500
0.4	1.44	B	4AM46 42-4TV00-0EB0		1.100	5.400	B	4AM46 42-4TV00-0EB1		1.100	5.400
0.5	2	B	4AM48 42-4TV00-0EB0		1.100	7.000	B	4AM48 42-4TV00-0EB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-4TV00-0EC0		0.240	2.700	B	4AM32 42-4TV00-0EC1		0.240	2.700
0.09	0.31	B	4AM34 42-4TV00-0EC0		0.260	3.300	B	4AM34 42-4TV00-0EC1		0.260	3.300
0.145	0.49	B	4AM38 42-4TV00-0EC0		0.320	5.600	B	4AM38 42-4TV00-0EC1		0.320	5.600
0.225	0.85	B	4AM40 42-4TV00-0EC0		0.590	6.600	B	4AM40 42-4TV00-0EC1		0.590	6.600
0.268	1.12	B	4AM43 42-4TV00-0EC0		0.670	7.400	B	4AM43 42-4TV00-0EC1		0.670	7.400
0.34	1.44	B	4AM46 42-4TV00-0EC0		1.100	8.300	B	4AM46 42-4TV00-0EC1		1.100	8.300
0.425	2	B	4AM48 42-4TV00-0EC0		1.100	9.900	B	4AM48 42-4TV00-0EC1		1.100	9.900
0.535	2.35	B	4AM52 42-4TV00-0EC0		1.700	10.800		--			
0.68	3.4	B	4AM55 42-4TV00-0EC0		1.900	13.900		--			
0.85	5	B	4AM57 42-4TV00-0EC0		2.000	16.900		--			
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-4TV00-0ED0		0.240	2.700	B	4AM32 42-4TV00-0ED1		0.240	2.700
0.08	0.31	B	4AM34 42-4TV00-0ED0		0.260	3.300	B	4AM34 42-4TV00-0ED1		0.260	3.300
0.128	0.49	B	4AM38 42-4TV00-0ED0		0.320	5.600	B	4AM38 42-4TV00-0ED1		0.320	5.600
0.2	0.85	B	4AM40 42-4TV00-0ED0		0.590	6.600	B	4AM40 42-4TV00-0ED1		0.590	6.600
0.236	1.12	B	4AM43 42-4TV00-0ED0		0.670	7.400	B	4AM43 42-4TV00-0ED1		0.670	7.400
0.3	1.44	B	4AM46 42-4TV00-0ED0		1.100	8.300	B	4AM46 42-4TV00-0ED1		1.100	8.300
0.375	2	B	4AM48 42-4TV00-0ED0		1.100	9.900	B	4AM48 42-4TV00-0ED1		1.100	9.900
0.475	2.35	B	4AM52 42-4TV00-0ED0		1.700	10.800		--			
0.6	3.4	B	4AM55 42-4TV00-0ED0		1.900	13.900		--			
0.75	5	B	4AM57 42-4TV00-0ED0		2.000	16.900		--			

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM safety (mains transformers) and control transformers

With one input voltage

Rated input voltage  $U_{1N}$  400 V  $\pm 5$  %,  
rated output voltage  $U_{2N}$  24 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ <sup>1)</sup> kVA	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version<sup>3)</sup></b>											
0.063	0.19	▶	4AM32 42-5AN00-0EA0		0.240	1.400	B	4AM32 42-5AN00-0EA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5AN00-0EA0		0.260	2.000	B	4AM34 42-5AN00-0EA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5AN00-0EA0		0.320	2.700	B	4AM38 42-5AN00-0EA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5AN00-0EA0		0.590	3.700	B	4AM40 42-5AN00-0EA1		0.590	3.700
0.315	1.12	▶	4AM43 42-5AN00-0EA0		0.670	4.500	B	4AM43 42-5AN00-0EA1		0.670	4.500
0.4	1.44	▶	4AM46 42-5AN00-0EA0		1.100	5.400	B	4AM46 42-5AN00-0EA1		1.100	5.400
0.5	2	▶	4AM48 42-5AN00-0EA0		1.100	7.000	B	4AM48 42-5AN00-0EA1		1.100	7.000
0.63	2.35	▶	4AM52 42-5AN00-0EA0		1.700	7.900		--		--	--
0.8	3.4	▶	4AM55 42-5AN00-0EA0		1.900	11.000		--		--	--
1	5	B	4AM57 42-5AN00-0EA0		2.000	14.000		--		--	--
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>											
0.063	0.19	▶	4AM32 42-5AN00-0EA0		0.240	1.400	B	4AM32 42-5AN00-0EA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5AN00-0EA0		0.260	2.000	B	4AM34 42-5AN00-0EA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5AN00-0EA0		0.320	2.700	B	4AM38 42-5AN00-0EA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5AN00-0EA0		0.590	3.700	B	4AM40 42-5AN00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5AN00-0EB0		0.670	4.500	B	4AM43 42-5AN00-0EB1		0.670	4.500
0.4	1.44	B	4AM46 42-5AN00-0EB0		1.100	5.400	B	4AM46 42-5AN00-0EB1		1.100	5.400
0.5	2	B	4AM48 42-5AN00-0EB0		1.100	7.000	B	4AM48 42-5AN00-0EB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-5AN00-0EC0		0.240	2.700	B	4AM32 42-5AN00-0EC1		0.240	2.700
0.09	0.31	B	4AM34 42-5AN00-0EC0		0.260	3.300	B	4AM34 42-5AN00-0EC1		0.260	3.300
0.145	0.49	B	4AM38 42-5AN00-0EC0		0.320	5.600	B	4AM38 42-5AN00-0EC1		0.320	5.600
0.225	0.85	B	4AM40 42-5AN00-0EC0		0.590	6.600	B	4AM40 42-5AN00-0EC1		0.590	6.600
0.268	1.12	B	4AM43 42-5AN00-0EC0		0.670	7.400	B	4AM43 42-5AN00-0EC1		0.670	7.400
0.34	1.44	B	4AM46 42-5AN00-0EC0		1.100	8.300	B	4AM46 42-5AN00-0EC1		1.100	8.300
0.425	2	B	4AM48 42-5AN00-0EC0		1.100	9.900	B	4AM48 42-5AN00-0EC1		1.100	9.900
0.535	2.35	B	4AM52 42-5AN00-0EC0		1.700	10.800		--		--	--
0.68	3.4	B	4AM55 42-5AN00-0EC0		1.900	13.900		--		--	--
0.85	5	B	4AM57 42-5AN00-0EC0		2.000	16.900		--		--	--
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-5AN00-0ED0		0.240	2.700	B	4AM32 42-5AN00-0ED1		0.240	2.700
0.08	0.31	B	4AM34 42-5AN00-0ED0		0.260	3.300	B	4AM34 42-5AN00-0ED1		0.260	3.300
0.128	0.49	B	4AM38 42-5AN00-0ED0		0.320	5.600	B	4AM38 42-5AN00-0ED1		0.320	5.600
0.2	0.85	B	4AM40 42-5AN00-0ED0		0.590	6.600	B	4AM40 42-5AN00-0ED1		0.590	6.600
0.236	1.12	B	4AM43 42-5AN00-0ED0		0.670	7.400	B	4AM43 42-5AN00-0ED1		0.670	7.400
0.3	1.44	B	4AM46 42-5AN00-0ED0		1.100	8.300	B	4AM46 42-5AN00-0ED1		1.100	8.300
0.375	2	B	4AM48 42-5AN00-0ED0		1.100	9.900	B	4AM48 42-5AN00-0ED1		1.100	9.900
0.475	2.35	B	4AM52 42-5AN00-0ED0		1.700	10.800		--		--	--
0.6	3.4	B	4AM55 42-5AN00-0ED0		1.900	13.900		--		--	--
0.75	5	B	4AM57 42-5AN00-0ED0		2.000	16.900		--		--	--

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.



# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

4AM safety (mains transformers) and control transformers

With one input voltage

Rated input voltage  $U_{1N}$  400 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  42 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{shortt.}$ <sup>1)</sup> kVA	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version<sup>3)</sup></b>											
0.063	0.19	▶	4AM32 42-5AV00-0EA0		0.240	1.400	B	4AM32 42-5AV00-0EA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5AV00-0EA0		0.260	2.000	B	4AM34 42-5AV00-0EA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5AV00-0EA0		0.320	2.700	B	4AM38 42-5AV00-0EA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5AV00-0EA0		0.590	3.700	B	4AM40 42-5AV00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5AV00-0EA0		0.670	4.500	B	4AM43 42-5AV00-0EA1		0.670	4.500
0.4	1.44	B	4AM46 42-5AV00-0EA0		1.100	5.400	B	4AM46 42-5AV00-0EA1		1.100	5.400
0.5	2	B	4AM48 42-5AV00-0EA0		1.100	7.000	B	4AM48 42-5AV00-0EA1		1.100	7.000
0.63	2.35	B	4AM52 42-5AV00-0EA0		1.700	7.900		--		--	--
0.8	3.4	B	4AM55 42-5AV00-0EA0		1.900	11.000		--		--	--
1	5	B	4AM57 42-5AV00-0EA0		2.000	14.000		--		--	--
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>											
0.063	0.19	▶	4AM32 42-5AV00-0EA0		0.240	1.400	B	4AM32 42-5AV00-0EA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5AV00-0EA0		0.260	2.000	B	4AM34 42-5AV00-0EA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5AV00-0EA0		0.320	2.700	B	4AM38 42-5AV00-0EA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5AV00-0EA0		0.590	3.700	B	4AM40 42-5AV00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5AV00-0EB0		0.670	4.500	B	4AM43 42-5AV00-0EB1		0.670	4.500
0.4	1.44	B	4AM46 42-5AV00-0EB0		1.100	5.400	B	4AM46 42-5AV00-0EB1		1.100	5.400
0.5	2	B	4AM48 42-5AV00-0EB0		1.100	7.000	B	4AM48 42-5AV00-0EB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-5AV00-0EC0		0.240	2.700	B	4AM32 42-5AV00-0EC1		0.240	2.700
0.09	0.31	B	4AM34 42-5AV00-0EC0		0.260	3.300	B	4AM34 42-5AV00-0EC1		0.260	3.300
0.145	0.49	B	4AM38 42-5AV00-0EC0		0.320	5.600	B	4AM38 42-5AV00-0EC1		0.320	5.600
0.225	0.85	B	4AM40 42-5AV00-0EC0		0.590	6.600	B	4AM40 42-5AV00-0EC1		0.590	6.600
0.268	1.12	B	4AM43 42-5AV00-0EC0		0.670	7.400	B	4AM43 42-5AV00-0EC1		0.670	7.400
0.34	1.44	B	4AM46 42-5AV00-0EC0		1.100	8.300	B	4AM46 42-5AV00-0EC1		1.100	8.300
0.425	2	B	4AM48 42-5AV00-0EC0		1.100	9.900	B	4AM48 42-5AV00-0EC1		1.100	9.900
0.535	2.35	B	4AM52 42-5AV00-0EC0		1.700	10.800		--		--	--
0.68	3.4	B	4AM55 42-5AV00-0EC0		1.900	13.900		--		--	--
0.85	5	B	4AM57 42-5AV00-0EC0		2.000	16.900		--		--	--
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-5AV00-0ED0		0.240	2.700	B	4AM32 42-5AV00-0ED1		0.240	2.700
0.08	0.31	B	4AM34 42-5AV00-0ED0		0.260	3.300	B	4AM34 42-5AV00-0ED1		0.260	3.300
0.128	0.49	B	4AM38 42-5AV00-0ED0		0.320	5.600	B	4AM38 42-5AV00-0ED1		0.320	5.600
0.2	0.85	B	4AM40 42-5AV00-0ED0		0.590	6.600	B	4AM40 42-5AV00-0ED1		0.590	6.600
0.236	1.12	B	4AM43 42-5AV00-0ED0		0.670	7.400	B	4AM43 42-5AV00-0ED1		0.670	7.400
0.3	1.44	B	4AM46 42-5AV00-0ED0		1.100	8.300	B	4AM46 42-5AV00-0ED1		1.100	8.300
0.375	2	B	4AM48 42-5AV00-0ED0		1.100	9.900	B	4AM48 42-5AV00-0ED1		1.100	9.900
0.475	2.35	B	4AM52 42-5AV00-0ED0		1.700	10.800		--		--	--
0.6	3.4	B	4AM55 42-5AV00-0ED0		1.900	13.900		--		--	--
0.75	5	B	4AM57 42-5AV00-0ED0		2.000	16.900		--		--	--

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM safety (mains transformers) and control transformers

With one input voltage

Rated input voltage  $U_{1N}$  440 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  24 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ <sup>1)</sup> kVA	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version<sup>3)</sup></b>											
0.063	0.19	B	4AM32 42-5CN00-0EA0		0.240	1.400	B	4AM32 42-5CN00-0EA1		0.240	1.400
0.1	0.31	B	4AM34 42-5CN00-0EA0		0.260	2.000	B	4AM34 42-5CN00-0EA1		0.260	2.000
0.16	0.49	B	4AM38 42-5CN00-0EA0		0.320	2.700	B	4AM38 42-5CN00-0EA1		0.370	2.700
0.25	0.85	B	4AM40 42-5CN00-0EA0		0.590	3.700	B	4AM40 42-5CN00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5CN00-0EA0		0.690	4.500	B	4AM43 42-5CN00-0EA1		0.670	4.500
0.4	1.44	B	4AM46 42-5CN00-0EA0		1.100	5.400	B	4AM46 42-5CN00-0EA1		1.100	5.400
0.5	2	B	4AM48 42-5CN00-0EA0		1.100	7.000	B	4AM48 42-5CN00-0EA1		1.100	7.000
0.63	2.35	B	4AM52 42-5CN00-0EA0		1.700	7.900		--			
0.8	3.4	B	4AM55 42-5CN00-0EA0		1.900	11.000		--			
1	5	B	4AM57 42-5CN00-0EA0		2.000	14.000		--			
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>											
0.063	0.19	B	4AM32 42-5CN00-0EA0		0.240	1.400	B	4AM32 42-5CN00-0EA1		0.240	1.400
0.1	0.31	B	4AM34 42-5CN00-0EA0		0.260	2.000	B	4AM34 42-5CN00-0EA1		0.260	2.000
0.16	0.49	B	4AM38 42-5CN00-0EA0		0.320	2.700	B	4AM38 42-5CN00-0EA1		0.370	2.700
0.25	0.85	B	4AM40 42-5CN00-0EA0		0.590	3.700	B	4AM40 42-5CN00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5CN00-0EB0		0.670	4.500	B	4AM43 42-5CN00-0EB1		0.670	4.500
0.4	1.44	B	4AM46 42-5CN00-0EB0		1.100	5.400	B	4AM46 42-5CN00-0EB1		1.100	5.400
0.5	2	B	4AM48 42-5CN00-0EB0		1.100	7.000	B	4AM48 42-5CN00-0EB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-5CN00-0EC0		0.240	2.700	B	4AM32 42-5CN00-0EC1		0.240	2.700
0.09	0.31	B	4AM34 42-5CN00-0EC0		0.260	3.300	B	4AM34 42-5CN00-0EC1		0.260	3.300
0.145	0.49	B	4AM38 42-5CN00-0EC0		0.320	5.600	B	4AM38 42-5CN00-0EC1		0.320	5.600
0.225	0.85	B	4AM40 42-5CN00-0EC0		0.590	6.600	B	4AM40 42-5CN00-0EC1		0.590	6.600
0.268	1.12	B	4AM43 42-5CN00-0EC0		0.670	7.400	B	4AM43 42-5CN00-0EC1		0.670	7.400
0.34	1.44	B	4AM46 42-5CN00-0EC0		1.100	8.300	B	4AM46 42-5CN00-0EC1		1.100	8.300
0.425	2	B	4AM48 42-5CN00-0EC0		1.100	9.900	B	4AM48 42-5CN00-0EC1		1.100	9.900
0.535	2.35	B	4AM52 42-5CN00-0EC0		1.700	10.800		--			
0.68	3.4	B	4AM55 42-5CN00-0EC0		1.900	13.900		--			
0.85	5	B	4AM57 42-5CN00-0EC0		2.000	16.900		--			
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-5CN00-0ED0		0.240	2.700	B	4AM32 42-5CN00-0ED1		0.240	2.700
0.08	0.31	B	4AM34 42-5CN00-0ED0		0.260	3.300	B	4AM34 42-5CN00-0ED1		0.260	3.300
0.128	0.49	B	4AM38 42-5CN00-0ED0		0.320	5.600	B	4AM38 42-5CN00-0ED1		0.320	5.600
0.2	0.85	B	4AM40 42-5CN00-0ED0		0.590	6.600	B	4AM40 42-5CN00-0ED1		0.590	6.600
0.236	1.12	B	4AM43 42-5CN00-0ED0		0.670	7.400	B	4AM43 42-5CN00-0ED1		0.670	7.400
0.3	1.44	B	4AM46 42-5CN00-0ED0		1.100	8.300	B	4AM46 42-5CN00-0ED1		1.100	8.300
0.375	2	B	4AM48 42-5CN00-0ED0		1.100	9.900	B	4AM48 42-5CN00-0ED1		1.100	9.900
0.475	2.35	B	4AM52 42-5CN00-0ED0		1.700	10.800		--			
0.6	3.4	B	4AM55 42-5CN00-0ED0		1.900	13.900		--			
0.75	5	B	4AM57 42-5CN00-0ED0		2.000	16.900		--			

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

4AM safety (mains transformers) and control transformers

With one input voltage

Rated input voltage  $U_{1N}$  440 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  42 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{shortt.}$ <sup>1)</sup> kVA	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version<sup>3)</sup></b>											
0.063	0.19	B	4AM32 42-5CV00-0EA0		0.240	1.400	B	4AM32 42-5CV00-0EA1		0.240	1.400
0.1	0.31	B	4AM34 42-5CV00-0EA0		0.260	2.000	B	4AM34 42-5CV00-0EA1		0.260	2.000
0.16	0.49	B	4AM38 42-5CV00-0EA0		0.320	2.700	B	4AM38 42-5CV00-0EA1		0.320	2.700
0.25	0.85	B	4AM40 42-5CV00-0EA0		0.590	3.700	B	4AM40 42-5CV00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5CV00-0EA0		0.740	4.500	B	4AM43 42-5CV00-0EA1		0.670	4.500
0.4	1.44	B	4AM46 42-5CV00-0EA0		1.100	5.400	B	4AM46 42-5CV00-0EA1		1.100	5.400
0.5	2	B	4AM48 42-5CV00-0EA0		1.100	7.000	B	4AM48 42-5CV00-0EA1		1.100	7.000
0.63	2.35	B	4AM52 42-5CV00-0EA0		1.700	7.900		--			
0.8	3.4	B	4AM55 42-5CV00-0EA0		1.900	11.000		--			
1	5	B	4AM57 42-5CV00-0EA0		2.000	14.000		--			
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>											
0.063	0.19	B	4AM32 42-5CV00-0EA0		0.240	1.400	B	4AM32 42-5CV00-0EA1		0.240	1.400
0.1	0.31	B	4AM34 42-5CV00-0EA0		0.260	2.000	B	4AM34 42-5CV00-0EA1		0.260	2.000
0.16	0.49	B	4AM38 42-5CV00-0EA0		0.320	2.700	B	4AM38 42-5CV00-0EA1		0.320	2.700
0.25	0.85	B	4AM40 42-5CV00-0EA0		0.590	3.700	B	4AM40 42-5CV00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5CV00-0EB0		0.670	4.500	B	4AM43 42-5CV00-0EB1		0.670	4.500
0.4	1.44	B	4AM46 42-5CV00-0EB0		1.100	5.400	B	4AM46 42-5CV00-0EB1		1.100	5.400
0.5	2	B	4AM48 42-5CV00-0EB0		1.100	7.000	B	4AM48 42-5CV00-0EB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-5CV00-0EC0		0.240	2.700	B	4AM32 42-5CV00-0EC1		0.240	2.700
0.09	0.31	B	4AM34 42-5CV00-0EC0		0.260	3.300	B	4AM34 42-5CV00-0EC1		0.260	3.300
0.145	0.49	B	4AM38 42-5CV00-0EC0		0.320	5.600	B	4AM38 42-5CV00-0EC1		0.320	5.600
0.225	0.85	B	4AM40 42-5CV00-0EC0		0.590	6.600	B	4AM40 42-5CV00-0EC1		0.590	6.600
0.268	1.12	B	4AM43 42-5CV00-0EC0		0.670	7.400	B	4AM43 42-5CV00-0EC1		0.670	7.400
0.34	1.44	B	4AM46 42-5CV00-0EC0		1.100	8.300	B	4AM46 42-5CV00-0EC1		1.100	8.300
0.425	2	B	4AM48 42-5CV00-0EC0		1.100	9.900	B	4AM48 42-5CV00-0EC1		1.100	9.900
0.535	2.35	B	4AM52 42-5CV00-0EC0		1.700	10.800		--			
0.68	3.4	B	4AM55 42-5CV00-0EC0		1.900	13.900		--			
0.85	5	B	4AM57 42-5CV00-0EC0		2.000	16.900		--			
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-5CV00-0ED0		0.240	2.700	B	4AM32 42-5CV00-0ED1		0.240	2.700
0.08	0.31	B	4AM34 42-5CV00-0ED0		0.260	3.300	B	4AM34 42-5CV00-0ED1		0.260	3.300
0.128	0.49	B	4AM38 42-5CV00-0ED0		0.320	5.600	B	4AM38 42-5CV00-0ED1		0.320	5.600
0.2	0.85	B	4AM40 42-5CV00-0ED0		0.590	6.600	B	4AM40 42-5CV00-0ED1		0.590	6.600
0.236	1.12	B	4AM43 42-5CV00-0ED0		0.670	7.400	B	4AM43 42-5CV00-0ED1		0.670	7.400
0.3	1.44	B	4AM46 42-5CV00-0ED0		1.100	8.300	B	4AM46 42-5CV00-0ED1		1.100	8.300
0.375	2	B	4AM48 42-5CV00-0ED0		1.100	9.900	B	4AM48 42-5CV00-0ED1		1.100	9.900
0.475	2.35	B	4AM52 42-5CV00-0ED0		1.700	10.800		--			
0.6	3.4	B	4AM55 42-5CV00-0ED0		1.900	13.900		--			
0.75	5	B	4AM57 42-5CV00-0ED0		2.000	16.900		--			

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM safety (mains transformers) and control transformers

With one input voltage

Rated input voltage  $U_{1N}$  500 V  $\pm 5$  %,  
rated output voltage  $U_{2N}$  24 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ <sup>1)</sup> kVA	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version<sup>3)</sup></b>											
0.063	0.19	B	4AM32 42-5FN00-0EA0		0.240	1.400	B	4AM32 42-5FN00-0EA1		0.240	1.400
0.1	0.31	B	4AM34 42-5FN00-0EA0		0.260	2.000	B	4AM34 42-5FN00-0EA1		0.260	2.000
0.16	0.49	B	4AM38 42-5FN00-0EA0		0.320	2.700	B	4AM38 42-5FN00-0EA1		0.320	2.700
0.25	0.85	B	4AM40 42-5FN00-0EA0		0.590	3.700	B	4AM40 42-5FN00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5FN00-0EA0		0.670	4.500	B	4AM43 42-5FN00-0EA1		0.760	4.500
0.4	1.44	B	4AM46 42-5FN00-0EA0		1.100	5.400	B	4AM46 42-5FN00-0EA1		1.100	5.400
0.5	2	B	4AM48 42-5FN00-0EA0		1.100	7.000	B	4AM48 42-5FN00-0EA1		1.100	7.000
0.63	2.35	B	4AM52 42-5FN00-0EA0		1.700	7.900		--		--	--
0.8	3.4	B	4AM55 42-5FN00-0EA0		1.900	11.000		--		--	--
1	5	B	4AM57 42-5FN00-0EA0		2.000	14.000		--		--	--
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>											
0.063	0.19	B	4AM32 42-5FN00-0EA0		0.240	1.400	B	4AM32 42-5FN00-0EA1		0.240	1.400
0.1	0.31	B	4AM34 42-5FN00-0EA0		0.260	2.000	B	4AM34 42-5FN00-0EA1		0.260	2.000
0.16	0.49	B	4AM38 42-5FN00-0EA0		0.320	2.700	B	4AM38 42-5FN00-0EA1		0.320	2.700
0.25	0.85	B	4AM40 42-5FN00-0EA0		0.590	3.700	B	4AM40 42-5FN00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5FN00-0EB0		0.670	4.500	B	4AM43 42-5FN00-0EB1		0.670	4.500
0.4	1.44	B	4AM46 42-5FN00-0EB0		1.100	5.400	B	4AM46 42-5FN00-0EB1		1.100	5.400
0.5	2	B	4AM48 42-5FN00-0EB0		1.100	7.000	B	4AM48 42-5FN00-0EB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-5FN00-0EC0		0.240	2.700	B	4AM32 42-5FN00-0EC1		0.240	2.700
0.09	0.31	B	4AM34 42-5FN00-0EC0		0.260	3.300	B	4AM34 42-5FN00-0EC1		0.260	3.300
0.145	0.49	B	4AM38 42-5FN00-0EC0		0.320	5.600	B	4AM38 42-5FN00-0EC1		0.320	5.600
0.225	0.85	B	4AM40 42-5FN00-0EC0		0.590	6.600	B	4AM40 42-5FN00-0EC1		0.590	6.600
0.268	1.12	B	4AM43 42-5FN00-0EC0		0.670	7.400	B	4AM43 42-5FN00-0EC1		0.670	7.400
0.34	1.44	B	4AM46 42-5FN00-0EC0		1.100	8.300	B	4AM46 42-5FN00-0EC1		1.100	8.300
0.425	2	B	4AM48 42-5FN00-0EC0		1.100	9.900	B	4AM48 42-5FN00-0EC1		1.100	9.900
0.535	2.35	B	4AM52 42-5FN00-0EC0		1.700	10.800		--		--	--
0.68	3.4	B	4AM55 42-5FN00-0EC0		1.900	13.900		--		--	--
0.85	5	B	4AM57 42-5FN00-0EC0		2.000	16.900		--		--	--
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-5FN00-0ED0		0.240	2.700	B	4AM32 42-5FN00-0ED1		0.240	2.700
0.08	0.31	B	4AM34 42-5FN00-0ED0		0.260	3.300	B	4AM34 42-5FN00-0ED1		0.260	3.300
0.128	0.49	B	4AM38 42-5FN00-0ED0		0.320	5.600	B	4AM38 42-5FN00-0ED1		0.320	5.600
0.2	0.85	B	4AM40 42-5FN00-0ED0		0.590	6.600	B	4AM40 42-5FN00-0ED1		0.590	6.600
0.236	1.12	B	4AM43 42-5FN00-0ED0		0.670	7.400	B	4AM43 42-5FN00-0ED1		0.670	7.400
0.3	1.44	B	4AM46 42-5FN00-0ED0		1.100	8.300	B	4AM46 42-5FN00-0ED1		1.100	8.300
0.375	2	B	4AM48 42-5FN00-0ED0		1.100	9.900	B	4AM48 42-5FN00-0ED1		1.100	9.900
0.475	2.35	B	4AM52 42-5FN00-0ED0		1.700	10.800		--		--	--
0.6	3.4	B	4AM55 42-5FN00-0ED0		1.900	13.900		--		--	--
0.75	5	B	4AM57 42-5FN00-0ED0		2.000	16.900		--		--	--

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

4AM safety (mains transformers) and control transformers

With one input voltage

Rated input voltage  $U_{1N}$  500 V  $\pm 5$  %,  
rated output voltage  $U_{2N}$  42 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ <sup>1)</sup> kVA	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version<sup>3)</sup></b>											
0.063	0.19	B	4AM32 42-5FV00-0EA0		0.240	1.400	B	4AM32 42-5FV00-0EA1		0.240	1.400
0.1	0.31	B	4AM34 42-5FV00-0EA0		0.260	2.000	B	4AM34 42-5FV00-0EA1		0.260	2.000
0.16	0.49	B	4AM38 42-5FV00-0EA0		0.320	2.700	B	4AM38 42-5FV00-0EA1		0.320	2.700
0.25	0.85	B	4AM40 42-5FV00-0EA0		0.590	3.700	B	4AM40 42-5FV00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5FV00-0EA0		0.750	4.500	B	4AM43 42-5FV00-0EA1		0.670	4.500
0.4	1.44	B	4AM46 42-5FV00-0EA0		1.100	5.400	C	4AM46 42-5FV00-0EA1		1.100	5.400
0.5	2	B	4AM48 42-5FV00-0EA0		1.100	7.000	B	4AM48 42-5FV00-0EA1		1.100	7.000
0.63	2.35	B	4AM52 42-5FV00-0EA0		1.700	7.900		--			
0.8	3.4	B	4AM55 42-5FV00-0EA0		1.900	11.000		--			
1	5	B	4AM57 42-5FV00-0EA0		2.000	14.000		--			
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>											
0.063	0.19	B	4AM32 42-5FV00-0EA0		0.240	1.400	B	4AM32 42-5FV00-0EA1		0.240	1.400
0.1	0.31	B	4AM34 42-5FV00-0EA0		0.260	2.000	B	4AM34 42-5FV00-0EA1		0.260	2.000
0.16	0.49	B	4AM38 42-5FV00-0EA0		0.320	2.700	B	4AM38 42-5FV00-0EA1		0.320	2.700
0.25	0.85	B	4AM40 42-5FV00-0EA0		0.590	3.700	B	4AM40 42-5FV00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5FV00-0EB0		0.670	4.500	B	4AM43 42-5FV00-0EB1		0.670	4.500
0.4	1.44	B	4AM46 42-5FV00-0EB0		1.100	5.400	B	4AM46 42-5FV00-0EB1		1.100	5.400
0.5	2	B	4AM48 42-5FV00-0EB0		1.100	7.000	B	4AM48 42-5FV00-0EB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-5FV00-0EC0		0.240	2.700	B	4AM32 42-5FV00-0EC1		0.240	2.700
0.09	0.31	B	4AM34 42-5FV00-0EC0		0.260	3.300	B	4AM34 42-5FV00-0EC1		0.260	3.300
0.145	0.49	B	4AM38 42-5FV00-0EC0		0.320	5.600	B	4AM38 42-5FV00-0EC1		0.320	5.600
0.225	0.85	B	4AM40 42-5FV00-0EC0		0.590	6.600	B	4AM40 42-5FV00-0EC1		0.590	6.600
0.268	1.12	B	4AM43 42-5FV00-0EC0		0.670	7.400	B	4AM43 42-5FV00-0EC1		0.670	7.400
0.34	1.44	B	4AM46 42-5FV00-0EC0		1.100	8.300	B	4AM46 42-5FV00-0EC1		1.100	8.300
0.425	2	B	4AM48 42-5FV00-0EC0		1.100	9.900	B	4AM48 42-5FV00-0EC1		1.100	9.900
0.535	2.35	B	4AM52 42-5FV00-0EC0		1.700	10.800		--			
0.68	3.4	B	4AM55 42-5FV00-0EC0		1.900	13.900		--			
0.85	5	B	4AM57 42-5FV00-0EC0		2.000	16.900		--			
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-5FV00-0ED0		0.240	2.700	B	4AM32 42-5FV00-0ED1		0.240	2.700
0.08	0.31	B	4AM34 42-5FV00-0ED0		0.260	3.300	B	4AM34 42-5FV00-0ED1		0.260	3.300
0.128	0.49	B	4AM38 42-5FV00-0ED0		0.320	5.600	B	4AM38 42-5FV00-0ED1		0.320	5.600
0.2	0.85	B	4AM40 42-5FV00-0ED0		0.590	6.600	B	4AM40 42-5FV00-0ED1		0.590	6.600
0.236	1.12	B	4AM43 42-5FV00-0ED0		0.670	7.400	B	4AM43 42-5FV00-0ED1		0.670	7.400
0.3	1.44	B	4AM46 42-5FV00-0ED0		1.100	8.300	B	4AM46 42-5FV00-0ED1		1.100	8.300
0.375	2	B	4AM48 42-5FV00-0ED0		1.100	9.900	B	4AM48 42-5FV00-0ED1		1.100	9.900
0.475	2.35	B	4AM52 42-5FV00-0ED0		1.700	10.800		--			
0.6	3.4	B	4AM55 42-5FV00-0ED0		1.900	13.900		--			
0.75	5	B	4AM57 42-5FV00-0ED0		2.000	13.400		--			

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM safety (mains transformers) and control transformers

#### For European voltages

Rated input voltage  $U_{1N}$  400/230 V  $\pm 15$  V,  
rated output voltage  $U_{2N}$  24 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{shortt.}$ <sup>1)</sup> kVA	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version<sup>3)</sup></b>											
0.063	0.19	▶	4AM32 42-8JN00-0EA0		0.340	1.500	B	4AM32 42-8JN00-0EA1		0.340	1.500
0.1	0.31	▶	4AM34 42-8JN00-0EA0		0.360	2.100	B	4AM34 42-8JN00-0EA1		0.360	2.100
0.16	0.49	▶	4AM38 42-8JN00-0EA0		0.450	2.800	B	4AM38 42-8JN00-0EA1		0.450	2.800
0.25	0.85	▶	4AM40 42-8JN00-0EA0		0.820	3.900	B	4AM40 42-8JN00-0EA1		0.820	3.900
0.315	1.12	B	4AM43 42-8JN00-0EA0		1.000	4.800	B	4AM43 42-8JN00-0EA1		1.000	4.800
0.4	1.44	B	4AM46 42-8JN00-0EA0		1.500	5.800	B	4AM46 42-8JN00-0EA1		1.500	5.800
0.5	2	B	4AM48 42-8JN00-0EA0		1.500	7.400	B	4AM48 42-8JN00-0EA1		1.500	7.400
0.63	2.35	B	4AM52 42-8JN00-0EA0		2.400	8.600		--			
0.8	3.4	B	4AM55 42-8JN00-0EA0		2.600	12.000		--			
1	5	B	4AM57 42-8JN00-0EA0		2.800	15.000		--			
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>											
0.063	0.19	▶	4AM32 42-8JN00-0EA0		0.340	1.500	B	4AM32 42-8JN00-0EA1		0.340	1.500
0.1	0.31	▶	4AM34 42-8JN00-0EA0		0.360	2.100	B	4AM34 42-8JN00-0EA1		0.360	2.100
0.16	0.49	▶	4AM38 42-8JN00-0EA0		0.450	2.800	B	4AM38 42-8JN00-0EA1		0.450	2.800
0.25	0.85	▶	4AM40 42-8JN00-0EA0		0.820	3.900	B	4AM40 42-8JN00-0EA1		0.820	3.900
0.315	1.12	B	4AM43 42-8JN00-0EB0		1.000	4.800	B	4AM43 42-8JN00-0EB1		1.000	4.800
0.4	1.44	B	4AM46 42-8JN00-0EB0		1.500	5.800	B	4AM46 42-8JN00-0EB1		1.500	5.800
0.5	2	B	4AM48 42-8JN00-0EB0		1.500	7.400	B	4AM48 42-8JN00-0EB1		1.500	7.400
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-8JN00-0EC0		0.340	2.800	B	4AM32 42-8JN00-0EC1		0.340	2.800
0.09	0.31	B	4AM34 42-8JN00-0EC0		0.360	3.400	B	4AM34 42-8JN00-0EC1		0.360	3.400
0.145	0.49	B	4AM38 42-8JN00-0EC0		0.450	5.700	B	4AM38 42-8JN00-0EC1		0.450	5.700
0.225	0.85	B	4AM40 42-8JN00-0EC0		0.820	6.800	B	4AM40 42-8JN00-0EC1		0.820	6.800
0.268	1.12	B	4AM43 42-8JN00-0EC0		1.000	7.700	B	4AM43 42-8JN00-0EC1		1.000	7.700
0.34	1.44	B	4AM46 42-8JN00-0EC0		1.500	8.700	B	4AM46 42-8JN00-0EC1		1.500	8.700
0.425	2	B	4AM48 42-8JN00-0EC0		1.500	10.300	B	4AM48 42-8JN00-0EC1		1.500	10.300
0.535	2.35	B	4AM52 42-8JN00-0EC0		2.400	11.500		--			
0.68	3.4	B	4AM55 42-8JN00-0EC0		2.600	14.900		--			
0.85	5	B	4AM57 42-8JN00-0EC0		2.800	17.900		--			
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-8JN00-0ED0		0.340	2.800	B	4AM32 42-8JN00-0ED1		0.340	2.800
0.08	0.31	B	4AM34 42-8JN00-0ED0		0.360	3.400	B	4AM34 42-8JN00-0ED1		0.360	3.400
0.128	0.49	B	4AM38 42-8JN00-0ED0		0.450	5.700	B	4AM38 42-8JN00-0ED1		0.450	5.700
0.2	0.85	B	4AM40 42-8JN00-0ED0		0.820	6.800	B	4AM40 42-8JN00-0ED1		0.820	6.800
0.236	1.12	B	4AM43 42-8JN00-0ED0		1.000	7.700	B	4AM43 42-8JN00-0ED1		1.000	7.700
0.3	1.44	B	4AM46 42-8JN00-0ED0		1.500	8.700	B	4AM46 42-8JN00-0ED1		1.500	8.700
0.375	2	B	4AM48 42-8JN00-0ED0		1.500	10.300	B	4AM48 42-8JN00-0ED1		1.500	10.300
0.475	2.35	B	4AM52 42-8JN00-0ED0		2.400	11.500		--			
0.6	3.4	B	4AM55 42-8JN00-0ED0		2.600	14.900		--			
0.75	5	B	4AM57 42-8JN00-0ED0		2.800	17.900		--			

1) For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

2) The delivery time class depends on the quantity, see page 10/4 "Options".

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers


4AM safety (mains transformers) and control transformers

### For European voltages

Rated input voltage  $U_{1N}$  400/230 V  $\pm$  15 V,  
rated output voltage  $U_{2N}$  42 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{short.}$ <sup>1)</sup>	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.	Price per PU	kg	kg
<b>Degree of protection IP00, standard version<sup>3)</sup></b>						
0.063	0.19	B	<b>4AM32 42-8JV00-0EA0</b>		0.340	1.500
0.1	0.31	B	<b>4AM34 42-8JV00-0EA0</b>		0.360	2.100
0.16	0.49	B	<b>4AM38 42-8JV00-0EA0</b>		0.450	2.800
0.25	0.85	B	<b>4AM40 42-8JV00-0EA0</b>		0.820	3.900
0.315	1.12	B	<b>4AM43 42-8JV00-0EA0</b>		1.000	4.800
0.4	1.44	B	<b>4AM46 42-8JV00-0EA0</b>		1.500	5.800
0.5	2	B	<b>4AM48 42-8JV00-0EA0</b>		1.500	7.400
0.63	2.35	B	<b>4AM52 42-8JV00-0EA0</b>		2.400	8.600
0.8	3.4	B	<b>4AM55 42-8JV00-0EA0</b>		2.600	12.000
1	5	B	<b>4AM57 42-8JV00-0EA0</b>		2.800	15.000
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>						
0.063	0.19	B	<b>4AM32 42-8JV00-0EA0</b>		0.340	1.500
0.1	0.31	B	<b>4AM34 42-8JV00-0EA0</b>		0.360	2.100
0.16	0.49	B	<b>4AM38 42-8JV00-0EA0</b>		0.450	2.800
0.25	0.85	B	<b>4AM40 42-8JV00-0EA0</b>		0.820	3.900
0.315	1.12	B	<b>4AM43 42-8JV00-0EB0</b>		1.000	4.800
0.4	1.44	B	<b>4AM46 42-8JV00-0EB0</b>		1.500	5.800
0.5	2	B	<b>4AM48 42-8JV00-0EB0</b>		1.500	7.400
<b>Degree of protection IP23</b>						
0.057	0.19	B	<b>4AM32 42-8JV00-0EC0</b>		0.340	2.800
0.09	0.31	B	<b>4AM34 42-8JV00-0EC0</b>		0.360	3.400
0.145	0.49	B	<b>4AM38 42-8JV00-0EC0</b>		0.450	5.700
0.225	0.85	B	<b>4AM40 42-8JV00-0EC0</b>		0.820	6.800
0.268	1.12	B	<b>4AM43 42-8JV00-0EC0</b>		1.000	7.700
0.34	1.44	B	<b>4AM46 42-8JV00-0EC0</b>		1.500	8.700
0.425	2	B	<b>4AM48 42-8JV00-0EC0</b>		1.500	10.300
0.535	2.35	B	<b>4AM52 42-8JV00-0EC0</b>		2.400	11.500
0.68	3.4	B	<b>4AM55 42-8JV00-0EC0</b>		2.600	14.900
0.85	5	B	<b>4AM57 42-8JV00-0EC0</b>		2.800	17.900
<b>Degree of protection IP54</b>						
0.05	0.19	B	<b>4AM32 42-8JV00-0ED0</b>		0.340	2.800
0.08	0.31	B	<b>4AM34 42-8JV00-0ED0</b>		0.360	3.400
0.128	0.49	B	<b>4AM38 42-8JV00-0ED0</b>		0.450	5.700
0.2	0.85	B	<b>4AM40 42-8JV00-0ED0</b>		0.820	6.800
0.236	1.12	B	<b>4AM43 42-8JV00-0ED0</b>		1.000	7.700
0.3	1.44	B	<b>4AM46 42-8JV00-0ED0</b>		1.500	8.700
0.375	2	B	<b>4AM48 42-8JV00-0ED0</b>		1.500	10.300
0.475	2.35	B	<b>4AM52 42-8JV00-0ED0</b>		2.400	11.500
0.6	3.4	B	<b>4AM55 42-8JV00-0ED0</b>		2.600	14.900
0.75	5	B	<b>4AM57 42-8JV00-0ED0</b>		2.800	17.900

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM safety (mains transformers) and control transformers

#### In multi-voltage version

Rated input voltage  $U_{1N}$   
550-525-500-480-460-440-415-400-380-230-208 V,  
rated output voltage  $U_{2N}$  24 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{short}$ <sup>1)</sup>	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.	Price per PU	kg	kg
<b>Degree of protection IP00, standard version<sup>3)</sup></b>						
0.063	0.19	▶	<b>4AM32 42-8DN00-0EA0</b>		0.340	1.500
0.1	0.31	▶	<b>4AM34 42-8DN00-0EA0</b>		0.360	2.100
0.16	0.49	▶	<b>4AM38 42-8DN00-0EA0</b>		0.450	2.800
0.25	0.85	▶	<b>4AM40 42-8DN00-0EA0</b>		0.820	3.900
0.315	1.12	▶	<b>4AM43 42-8DN00-0EA0</b>		1.000	4.800
0.4	1.44	▶	<b>4AM46 42-8DN00-0EA0</b>		1.500	5.800
0.5	2	▶	<b>4AM48 42-8DN00-0EA0</b>		1.500	7.400
0.63	2.35	▶	<b>4AM52 42-8DN00-0EA0</b>		2.400	8.600
0.8	3.4	B	<b>4AM55 42-8DN00-0EA0</b>		2.600	12.000
1	5	B	<b>4AM57 42-8DN00-0EA0</b>		2.800	15.000
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>						
0.063	0.19	▶	<b>4AM32 42-8DN00-0EA0</b>		0.340	1.500
0.1	0.31	▶	<b>4AM34 42-8DN00-0EA0</b>		0.360	2.100
0.16	0.49	▶	<b>4AM38 42-8DN00-0EA0</b>		0.450	2.800
0.25	0.85	▶	<b>4AM40 42-8DN00-0EA0</b>		0.820	3.900
0.315	1.12	B	<b>4AM43 42-8DN00-0EB0</b>		1.000	4.800
0.4	1.44	B	<b>4AM46 42-8DN00-0EB0</b>		1.500	5.800
0.5	2	B	<b>4AM48 42-8DN00-0EB0</b>		1.500	7.400
<b>Degree of protection IP23</b>						
0.057	0.19	B	<b>4AM32 42-8DN00-0EC0</b>		0.340	2.800
0.09	0.31	B	<b>4AM34 42-8DN00-0EC0</b>		0.360	3.400
0.145	0.49	B	<b>4AM38 42-8DN00-0EC0</b>		0.450	5.700
0.225	0.85	B	<b>4AM40 42-8DN00-0EC0</b>		0.820	6.800
0.268	1.12	B	<b>4AM43 42-8DN00-0EC0</b>		1.000	7.700
0.34	1.44	B	<b>4AM46 42-8DN00-0EC0</b>		1.500	8.700
0.425	2	B	<b>4AM48 42-8DN00-0EC0</b>		1.500	10.300
0.535	2.35	B	<b>4AM52 42-8DN00-0EC0</b>		2.400	11.500
0.68	3.4	B	<b>4AM55 42-8DN00-0EC0</b>		2.600	14.900
0.85	5	B	<b>4AM57 42-8DN00-0EC0</b>		2.800	17.900
<b>Degree of protection IP54</b>						
0.05	0.19	B	<b>4AM32 42-8DN00-0ED0</b>		0.340	2.800
0.08	0.31	B	<b>4AM34 42-8DN00-0ED0</b>		0.360	3.400
0.128	0.49	B	<b>4AM38 42-8DN00-0ED0</b>		0.450	5.700
0.2	0.85	B	<b>4AM40 42-8DN00-0ED0</b>		0.820	6.800
0.236	1.12	B	<b>4AM43 42-8DN00-0ED0</b>		1.000	7.700
0.3	1.44	B	<b>4AM46 42-8DN00-0ED0</b>		1.500	8.700
0.375	2	B	<b>4AM48 42-8DN00-0ED0</b>		1.500	10.300
0.475	2.35	B	<b>4AM52 42-8DN00-0ED0</b>		2.400	11.500
0.6	3.4	B	<b>4AM55 42-8DN00-0ED0</b>		2.600	14.900
0.75	5	B	<b>4AM57 42-8DN00-0ED0</b>		2.800	17.900

1) For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

2) The delivery time class depends on the quantity, see page 10/4 "Options".

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.



# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers


4AM safety (mains transformers) and control transformers

### In multi-voltage version

Rated input voltage  $U_{1N}$   
550-525-500-480-460-440-415-400-380-230-208 V,  
rated output voltage  $U_{2N}$  42 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{short.}$ <sup>1)</sup>	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.	Price per PU	kg	kg
<b>Degree of protection IP00, standard version<sup>3)</sup></b>						
0.063	0.19	B	4AM32 42-8DV00-0EA0		0.340	1.500
0.1	0.31	B	4AM34 42-8DV00-0EA0		0.360	2.100
0.16	0.49	B	4AM38 42-8DV00-0EA0		0.450	2.800
0.25	0.85	B	4AM40 42-8DV00-0EA0		0.820	3.900
0.315	1.12	B	4AM43 42-8DV00-0EA0		1.000	4.800
0.4	1.44	B	4AM46 42-8DV00-0EA0		1.500	5.800
0.5	2	B	4AM48 42-8DV00-0EA0		1.500	7.400
0.63	2.35	B	4AM52 42-8DV00-0EA0		2.400	8.600
0.8	3.4	B	4AM55 42-8DV00-0EA0		2.600	12.000
1	5	B	4AM57 42-8DV00-0EA0		2.800	15.000
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>						
0.063	0.19	B	4AM32 42-8DV00-0EA0		0.340	1.500
0.1	0.31	B	4AM34 42-8DV00-0EA0		0.360	2.100
0.16	0.49	B	4AM38 42-8DV00-0EA0		0.450	2.800
0.25	0.85	B	4AM40 42-8DV00-0EA0		0.820	3.900
0.315	1.12	B	4AM43 42-8DV00-0EB0		1.000	4.800
0.4	1.44	B	4AM46 42-8DV00-0EB0		1.500	5.800
0.5	2	B	4AM48 42-8DV00-0EB0		1.500	7.400
<b>Degree of protection IP23</b>						
0.057	0.19	B	4AM32 42-8DV00-0EC0		0.340	2.800
0.09	0.31	B	4AM34 42-8DV00-0EC0		0.360	3.400
0.145	0.49	B	4AM38 42-8DV00-0EC0		0.450	5.700
0.225	0.85	B	4AM40 42-8DV00-0EC0		0.820	6.800
0.268	1.12	B	4AM43 42-8DV00-0EC0		1.000	7.700
0.34	1.44	B	4AM46 42-8DV00-0EC0		1.500	8.700
0.425	2	B	4AM48 42-8DV00-0EC0		1.500	10.300
0.535	2.35	B	4AM52 42-8DV00-0EC0		2.400	11.500
0.68	3.4	B	4AM55 42-8DV00-0EC0		2.600	14.900
0.85	5	B	4AM57 42-8DV00-0EC0		2.800	17.900
<b>Degree of protection IP54</b>						
0.05	0.19	B	4AM32 42-8DV00-0ED0		0.340	2.800
0.08	0.31	B	4AM34 42-8DV00-0ED0		0.360	3.400
0.128	0.49	B	4AM38 42-8DV00-0ED0		0.450	5.700
0.2	0.85	B	4AM40 42-8DV00-0ED0		0.820	6.800
0.236	1.12	B	4AM43 42-8DV00-0ED0		1.000	7.700
0.3	1.44	B	4AM46 42-8DV00-0ED0		1.500	8.700
0.375	2	B	4AM48 42-8DV00-0ED0		1.500	10.300
0.475	2.35	B	4AM52 42-8DV00-0ED0		2.400	11.500
0.6	3.4	B	4AM55 42-8DV00-0ED0		2.600	14.900
0.75	5	B	4AM57 42-8DV00-0ED0		2.800	17.900

1) For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

2) The delivery time class depends on the quantity, see page 10/4 "Options".

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM safety (mains transformers) and control transformers

#### In multi-voltage version

Rated input voltage  $U_{1N}$   
600-575-550-525-500-480-460-440-415-400-240-230 V,  
rated output voltage  $U_{2N}$  24 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{short.}$ <sup>1)</sup>	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.	Price per PU	kg	kg
<b>Degree of protection IP00, standard version<sup>3)</sup></b>						
0.063	0.19	▶	<b>4AM32 42-8EN00-0EAO</b>		0.340	1.500
0.1	0.31	▶	<b>4AM34 42-8EN00-0EAO</b>		0.360	2.100
0.16	0.49	▶	<b>4AM38 42-8EN00-0EAO</b>		0.450	2.800
0.25	0.85	▶	<b>4AM40 42-8EN00-0EAO</b>		0.820	3.900
0.315	1.12	▶	<b>4AM43 42-8EN00-0EAO</b>		1.000	4.800
0.4	1.44	▶	<b>4AM46 42-8EN00-0EAO</b>		1.500	5.800
0.5	2	▶	<b>4AM48 42-8EN00-0EAO</b>		1.500	7.400
0.63	2.35	▶	<b>4AM52 42-8EN00-0EAO</b>		2.400	8.600
0.8	3.4	B	<b>4AM55 42-8EN00-0EAO</b>		2.600	12.000
1	5	B	<b>4AM57 42-8EN00-0EAO</b>		2.800	15.000
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>						
0.063	0.19	▶	<b>4AM32 42-8EN00-0EAO</b>		0.340	1.500
0.1	0.31	▶	<b>4AM34 42-8EN00-0EAO</b>		0.360	2.100
0.16	0.49	▶	<b>4AM38 42-8EN00-0EAO</b>		0.450	2.800
0.25	0.85	▶	<b>4AM40 42-8EN00-0EAO</b>		0.820	3.900
0.315	1.12	B	<b>4AM43 42-8EN00-0EBO</b>		1.000	4.800
0.4	1.44	B	<b>4AM46 42-8EN00-0EBO</b>		1.500	5.800
0.5	2	B	<b>4AM48 42-8EN00-0EBO</b>		1.240	7.400
<b>Degree of protection IP23</b>						
0.057	0.19	B	<b>4AM32 42-8EN00-0ECO</b>		0.340	2.800
0.09	0.31	B	<b>4AM34 42-8EN00-0ECO</b>		0.360	3.400
0.145	0.49	B	<b>4AM38 42-8EN00-0ECO</b>		0.450	5.700
0.225	0.85	B	<b>4AM40 42-8EN00-0ECO</b>		0.820	6.800
0.268	1.12	B	<b>4AM43 42-8EN00-0ECO</b>		1.000	7.700
0.34	1.44	B	<b>4AM46 42-8EN00-0ECO</b>		1.500	8.700
0.425	2	B	<b>4AM48 42-8EN00-0ECO</b>		1.500	10.300
0.535	2.35	B	<b>4AM52 42-8EN00-0ECO</b>		2.400	11.500
0.68	3.4	B	<b>4AM55 42-8EN00-0ECO</b>		2.600	14.900
0.85	5	B	<b>4AM57 42-8EN00-0ECO</b>		2.800	17.900
<b>Degree of protection IP54</b>						
0.05	0.19	B	<b>4AM32 42-8EN00-0EDO</b>		0.340	2.800
0.08	0.31	B	<b>4AM34 42-8EN00-0EDO</b>		0.360	3.400
0.128	0.49	B	<b>4AM38 42-8EN00-0EDO</b>		0.450	5.700
0.2	0.85	B	<b>4AM40 42-8EN00-0EDO</b>		0.820	6.800
0.236	1.12	B	<b>4AM43 42-8EN00-0EDO</b>		1.000	7.700
0.3	1.44	B	<b>4AM46 42-8EN00-0EDO</b>		1.500	8.700
0.375	2	B	<b>4AM48 42-8EN00-0EDO</b>		1.500	10.300
0.475	2.35	B	<b>4AM52 42-8EN00-0EDO</b>		2.400	11.500
0.6	3.4	B	<b>4AM55 42-8EN00-0EDO</b>		2.600	14.900
0.75	5	B	<b>4AM57 42-8EN00-0EDO</b>		2.800	17.900

1) For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

2) The delivery time class depends on the quantity, see page 10/4 "Options".

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

4AM safety (mains transformers) and control transformers

### In multi-voltage version

Rated input voltage  $U_{1N}$   
600-575-550-525-500-480-460-440-415-400-240-230 V,  
rated output voltage  $U_{2N}$  42 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{short.}$ <sup>1)</sup>	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.	Price per PU	kg	kg
<b>Degree of protection IP00, standard version<sup>3)</sup></b>						
0.063	0.19	B	4AM32 42-8EV00-0EA0		0.340	1.500
0.1	0.31	B	4AM34 42-8EV00-0EA0		0.360	2.100
0.16	0.49	B	4AM38 42-8EV00-0EA0		0.450	2.800
0.25	0.85	B	4AM40 42-8EV00-0EA0		0.820	3.900
0.315	1.12	B	4AM43 42-8EV00-0EA0		1.000	4.800
0.4	1.44	B	4AM46 42-8EV00-0EA0		1.500	5.800
0.5	2	B	4AM48 42-8EV00-0EA0		1.500	7.400
0.63	2.35	B	4AM52 42-8EV00-0EA0		2.400	8.600
0.8	3.4	B	4AM55 42-8EV00-0EA0		2.600	12.000
1	5	B	4AM57 42-8EV00-0EA0		2.800	15.000
<b>Degree of protection IP00, standard rail mounting<sup>3)</sup></b>						
0.063	0.19	B	4AM32 42-8EV00-0EA0		0.340	1.500
0.1	0.31	B	4AM34 42-8EV00-0EA0		0.360	2.100
0.16	0.49	B	4AM38 42-8EV00-0EA0		0.450	2.800
0.25	0.85	B	4AM40 42-8EV00-0EA0		0.820	3.900
0.315	1.12	B	4AM43 42-8EV00-0EB0		1.000	4.800
0.4	1.44	B	4AM46 42-8EV00-0EB0		1.500	5.800
0.5	2	B	4AM48 42-8EV00-0EB0		1.500	7.400
<b>Degree of protection IP23</b>						
0.057	0.19	B	4AM32 42-8EV00-0EC0		0.340	2.800
0.09	0.31	B	4AM34 42-8EV00-0EC0		0.360	3.400
0.145	0.49	B	4AM38 42-8EV00-0EC0		0.450	5.700
0.225	0.85	B	4AM40 42-8EV00-0EC0		0.820	6.800
0.268	1.12	B	4AM43 42-8EV00-0EC0		1.000	7.700
0.34	1.44	B	4AM46 42-8EV00-0EC0		1.500	8.700
0.425	2	B	4AM48 42-8EV00-0EC0		1.500	10.300
0.535	2.35	B	4AM52 42-8EV00-0EC0		2.400	11.500
0.68	3.4	B	4AM55 42-8EV00-0EC0		2.600	14.900
0.85	5	B	4AM57 42-8EV00-0EC0		2.800	17.900
<b>Degree of protection IP54</b>						
0.05	0.19	B	4AM32 42-8EV00-0ED0		0.340	2.800
0.08	0.31	B	4AM34 42-8EV00-0ED0		0.360	3.400
0.128	0.49	B	4AM38 42-8EV00-0ED0		0.450	5.700
0.2	0.85	B	4AM40 42-8EV00-0ED0		0.820	6.800
0.236	1.12	B	4AM43 42-8EV00-0ED0		1.000	7.700
0.3	1.44	B	4AM46 42-8EV00-0ED0		1.500	8.700
0.375	2	B	4AM48 42-8EV00-0ED0		1.500	10.300
0.475	2.35	B	4AM52 42-8EV00-0ED0		2.400	11.500
0.6	3.4	B	4AM55 42-8EV00-0ED0		2.600	14.900
0.75	5	B	4AM57 42-8EV00-0ED0		2.800	17.900

1) For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

2) The delivery time class depends on the quantity, see page 10/4 "Options".

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

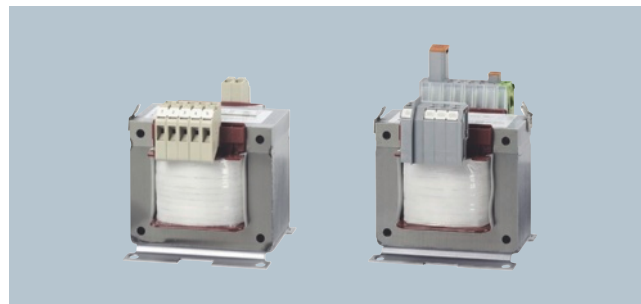
# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM safety transformers (mains transformers)

#### Overview

- According to EN 61558-2-6, -2-1
- **cULus**
- $t_a = 40\text{ °C/B}$
- AC 50/60 Hz
- Degree of protection IP00, IP23 and IP54



4AM with screw/flat connectors (left) and with Cage Clamp terminals (right)



#### Selection and ordering data

##### With one input voltage

Rated input voltage  $U_{1N}$  230 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  24 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ kVA	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version</b>											
0.025	--		4AM23 42-4TN00-0EA0		0.110	0.600	B	4AM23 42-4TN00-0EA1		0.110	0.600
0.04	--		4AM26 42-4TN00-0EA0		0.150	0.800	B	4AM26 42-4TN00-0EA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-4TN00-0EB0		0.110	0.600	B	4AM23 42-4TN00-0EB1		0.110	0.600
0.04	--	B	4AM26 42-4TN00-0EB0		0.150	0.800	B	4AM26 42-4TN00-0EB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-4TN00-0EC0		0.110	1.900	B	4AM23 42-4TN00-0EC1		0.110	1.900
0.036	--	B	4AM26 42-4TN00-0EC0		0.150	2.100	B	4AM26 42-4TN00-0EC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-4TN00-0ED0		0.110	1.900	B	4AM23 42-4TN00-0ED1		0.110	1.900
0.03	--	B	4AM26 42-4TN00-0ED0		0.150	2.100	B	4AM26 42-4TN00-0ED1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

##### With one input voltage

Rated input voltage  $U_{1N}$  230 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  42 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ kVA	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version</b>											
0.025	--	B	4AM23 42-4TV00-0EA0		0.110	0.600	B	4AM23 42-4TV00-0EA1		0.110	0.600
0.04	--	B	4AM26 42-4TV00-0EA0		0.150	0.800	B	4AM26 42-4TV00-0EA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-4TV00-0EB0		0.110	0.600	B	4AM23 42-4TV00-0EB1		0.110	0.600
0.04	--	B	4AM26 42-4TV00-0EB0		0.150	0.800	B	4AM26 42-4TV00-0EB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-4TV00-0EC0		0.110	1.900	B	4AM23 42-4TV00-0EC1		0.110	1.900
0.036	--	B	4AM26 42-4TV00-0EC0		0.150	2.100	B	4AM26 42-4TV00-0EC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-4TV00-0ED0		0.110	1.900	B	4AM23 42-4TV00-0ED1		0.110	1.900
0.03	--	B	4AM26 42-4TV00-0ED0		0.150	2.100	B	4AM26 42-4TV00-0ED1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

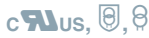
# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM safety transformers (mains transformers)

#### With one input voltage

Rated input voltage  $U_{1N}$  400 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  24 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{shortt.}$	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx.	Total weight per PU approx.	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.	Price per PU	kg	kg		Order No.	Price per PU	kg	kg
<b>Degree of protection IP00, standard version</b>											
0.025	--	▶	4AM23 42-5AN00-0EA0		0.110	0.600	B	4AM23 42-5AN00-0EA1		0.110	0.600
0.04	--	▶	4AM26 42-5AN00-0EA0		0.150	0.800	B	4AM26 42-5AN00-0EA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-5AN00-0EB0		0.110	0.600	B	4AM23 42-5AN00-0EB1		0.110	0.600
0.04	--	B	4AM26 42-5AN00-0EB0		0.150	0.800	B	4AM26 42-5AN00-0EB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-5AN00-0EC0		0.110	1.900	B	4AM23 42-5AN00-0EC1		0.110	1.900
0.036	--	B	4AM26 42-5AN00-0EC0		0.150	2.100	B	4AM26 42-5AN00-0EC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-5AN00-0ED0		0.110	1.900	B	4AM23 42-5AN00-0ED1		0.110	1.900
0.03	--	B	4AM26 42-5AN00-0ED0		0.150	2.100	B	4AM26 42-5AN00-0ED1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

#### With one input voltage

Rated input voltage  $U_{1N}$  400 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  42 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{shortt.}$	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx.	Total weight per PU approx.	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.	Price per PU	kg	kg		Order No.	Price per PU	kg	kg
<b>Degree of protection IP00, standard version</b>											
0.025	--	B	4AM23 42-5AV00-0EA0		0.110	0.600	B	4AM23 42-5AV00-0EA1		0.110	0.600
0.04	--	B	4AM26 42-5AV00-0EA0		0.150	0.800	B	4AM26 42-5AV00-0EA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-5AV00-0EB0		0.110	0.600	B	4AM23 42-5AV00-0EB1		0.110	0.600
0.04	--	B	4AM26 42-5AV00-0EB0		0.150	0.800	B	4AM26 42-5AV00-0EB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-5AV00-0EC0		0.110	1.900	B	4AM23 42-5AV00-0EC1		0.110	1.900
0.036	--	B	4AM26 42-5AV00-0EC0		0.150	2.100	B	4AM26 42-5AV00-0EC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-5AV00-0ED0		0.110	1.900	B	4AM23 42-5AV00-0ED1		0.110	1.900
0.03	--	B	4AM26 42-5AV00-0ED0		0.150	2.100	B	4AM26 42-5AV00-0ED1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM safety transformers (mains transformers)

With one input voltage

Rated input voltage  $U_{1N}$  440 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  24 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{shortt.}$ kVA	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version</b>											
0.025	--	B	4AM23 42-5CN00-0EA0		0.110	0.600	B	4AM23 42-5CN00-0EA1		0.110	0.600
0.04	--	B	4AM26 42-5CN00-0EA0		0.150	0.800	B	4AM26 42-5CN00-0EA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-5CN00-0EB0		0.110	0.600	B	4AM23 42-5CN00-0EB1		0.110	0.600
0.04	--	B	4AM26 42-5CN00-0EB0		0.150	0.800	B	4AM26 42-5CN00-0EB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-5CN00-0EC0		0.110	1.900	B	4AM23 42-5CN00-0EC1		0.110	1.900
0.036	--	B	4AM26 42-5CN00-0EC0		0.150	2.100	B	4AM26 42-5CN00-0EC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-5CN00-0ED0		0.110	1.900	B	4AM23 42-5CN00-0ED1		0.110	1.900
0.03	--	B	4AM26 42-5CN00-0ED0		0.150	2.100	B	4AM26 42-5CN00-0ED1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

With one input voltage

Rated input voltage  $U_{1N}$  440 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  42 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{shortt.}$ kVA	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version</b>											
0.025	--	B	4AM23 42-5CV00-0EA0		0.110	0.600	B	4AM23 42-5CV00-0EA1		0.110	0.600
0.04	--	B	4AM26 42-5CV00-0EA0		0.150	0.800	B	4AM26 42-5CV00-0EA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-5CV00-0EB0		0.110	0.600	B	4AM23 42-5CV00-0EB1		0.110	0.600
0.04	--	B	4AM26 42-5CV00-0EB0		0.150	0.800	B	4AM26 42-5CV00-0EB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-5CV00-0EC0		0.110	1.900	B	4AM23 42-5CV00-0EC1		0.110	1.900
0.036	--	B	4AM26 42-5CV00-0EC0		0.150	2.100	B	4AM26 42-5CV00-0EC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-5CV00-0ED0		0.110	1.900	B	4AM23 42-5CV00-0ED1		0.110	1.900
0.03	--	B	4AM26 42-5CV00-0ED0		0.150	2.100	B	4AM26 42-5CV00-0ED1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM safety transformers (mains transformers)

#### With one input voltage

Rated input voltage  $U_{1N}$  500 V  $\pm 5$  %,  
rated output voltage  $U_{2N}$  24 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{shortt.}$ kVA	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version</b>											
0.025	--	B	4AM23 42-5FN00-0EA0		0.110	0.600	B	4AM23 42-5FN00-0EA1		0.110	0.600
0.04	--	B	4AM26 42-5FN00-0EA0		0.150	0.800	B	4AM26 42-5FN00-0EA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-5FN00-0EB0		0.110	0.600	B	4AM23 42-5FN00-0EB1		0.110	0.600
0.04	--	B	4AM26 42-5FN00-0EB0		0.150	0.800	B	4AM26 42-5FN00-0EB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-5FN00-0EC0		0.110	1.900	B	4AM23 42-5FN00-0EC1		0.110	1.900
0.036	--	B	4AM26 42-5FN00-0EC0		0.150	2.100	B	4AM26 42-5FN00-0EC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-5FN00-0ED0		0.110	1.900	B	4AM23 42-5FN00-0ED1		0.110	1.900
0.03	--	B	4AM26 42-5FN00-0ED0		0.150	2.100	B	4AM26 42-5FN00-0ED1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

#### With one input voltage

Rated input voltage  $U_{1N}$  500 V  $\pm 5$  %,  
rated output voltage  $U_{2N}$  42 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{shortt.}$ kVA	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version</b>											
0.025	--	B	4AM23 42-5FV00-0EA0		0.110	0.600	B	4AM23 42-5FV00-0EA1		0.110	0.600
0.04	--	B	4AM26 42-5FV00-0EA0		0.150	0.800	B	4AM26 42-5FV00-0EA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-5FV00-0EB0		0.110	0.600	B	4AM23 42-5FV00-0EB1		0.110	0.600
0.04	--	B	4AM26 42-5FV00-0EB0		0.150	0.800	B	4AM26 42-5FV00-0EB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-5FV00-0EC0		0.110	1.900	B	4AM23 42-5FV00-0EC1		0.110	1.900
0.032	--	B	4AM26 42-5FV00-0EC0		0.150	2.100	B	4AM26 42-5FV00-0EC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-5FV00-0ED0		0.110	1.900	B	4AM23 42-5FV00-0ED1		0.110	1.900
0.03	--	B	4AM26 42-5FV00-0ED0		0.150	2.100	B	4AM26 42-5FV00-0ED1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM, 4AT isolating, control and mains transformers

#### Overview

- According to EN 61558-2-4, -2-2, -2-1
- **cULus**<sup>1)</sup>
- 4AM:  $t_a = 40$  °C/B, 4AT:  $t_a = 55$  °C/H
- AC 50/60 Hz
- Degree of protection IP00, IP23 and IP54



4AM with screw/flat connectors (left) and 4AT with screw terminals (right)



<sup>1)</sup> **cULus** approvals for voltages  $\leq 600$  V (excluding tappings).

#### Selection and ordering data

##### With one input voltage

Rated input voltage  $U_{1N}$  230 V  $\pm 5$  %,

rated output voltage  $U_{2N}$  110 V

Degree of protection IP00



PU (UNIT, SET, M) = 1  
 PS = 1 unit (You can order this quantity or a multiple thereof.)  
 PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ <sup>1)</sup> kVA	DT <sup>2)</sup>	Screw terminals <sup>3)/</sup> flat connectors <sup>3)</sup>		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version<sup>4)</sup></b>											
0.063	0.19	▶	4AM32 42-4TJ10-0FA0		0.240	1.400	B	4AM32 42-4TJ10-0FA1		0.240	1.400
0.1	0.31	▶	4AM34 42-4TJ10-0FA0		0.260	2.000	B	4AM34 42-4TJ10-0FA1		0.260	2.000
0.16	0.49	▶	4AM38 42-4TJ10-0FA0		0.320	2.700	B	4AM38 42-4TJ10-0FA1		0.320	2.700
0.25	0.85	▶	4AM40 42-4TJ10-0FA0		0.590	3.700	B	4AM40 42-4TJ10-0FA1		0.590	3.700
0.315	1.12	▶	4AM43 42-4TJ10-0FA0		0.670	4.500	B	4AM43 42-4TJ10-0FA1		0.670	4.500
0.4	1.44	▶	4AM46 42-4TJ10-0FA0		1.100	5.400	B	4AM46 42-4TJ10-0FA1		1.100	5.400
0.5	2	▶	4AM48 42-4TJ10-0FA0		1.100	7.000	B	4AM48 42-4TJ10-0FA1		1.100	7.000
0.63	2.35	▶	4AM52 42-4TJ10-0FA0		1.700	7.900	B	4AM52 42-4TJ10-0FA1		1.700	7.900
0.8	3.4	▶	4AM55 42-4TJ10-0FA0		1.900	11.000	B	4AM55 42-4TJ10-0FA1		1.900	11.000
1	5	▶	4AM57 42-4TJ10-0FA0		2.000	14.000	B	4AM57 42-4TJ10-0FA1		2.000	14.000
1.6	7.3	B	4AM61 42-4TJ10-0FA0		4.100	19.000	B	4AM61 42-4TJ10-0FA1		4.100	19.000
2	9.7	B	4AM64 42-4TJ10-0FA0		4.700	23.000	B	4AM64 42-4TJ10-0FA1		4.700	23.000
2.5	13.3	B	4AM65 42-4TJ10-0FA0		6.400	29.000	B	4AM65 42-4TJ10-0FA1		6.400	29.000
4	16	B	4AT30 32-4TJ10-0FA0		9.900	30.300		--			
5	18.5	B	4AT36 12-4TJ10-0FA0		6.900	33.700		--			
6.3	22.5	B	4AT36 32-4TJ10-0FA0		11.300	39.600		--			
8	28.5	B	4AT39 12-4TJ10-0FA0		12.800	47.900		--			
10	30	B	4AT39 32-4TJ10-0FA0		22.100	57.100		--			
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>											
0.063	0.19	▶	4AM32 42-4TJ10-0FA0		0.240	1.400	B	4AM32 42-4TJ10-0FA1		0.240	1.400
0.1	0.31	▶	4AM34 42-4TJ10-0FA0		0.260	2.000	B	4AM34 42-4TJ10-0FA1		0.260	2.000
0.16	0.49	▶	4AM38 42-4TJ10-0FA0		0.320	2.700	B	4AM38 42-4TJ10-0FA1		0.320	2.700
0.25	0.85	▶	4AM40 42-4TJ10-0FA0		0.590	3.700	B	4AM40 42-4TJ10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-4TJ10-0FB0		0.670	4.500	B	4AM43 42-4TJ10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-4TJ10-0FB0		1.100	5.400	B	4AM46 42-4TJ10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-4TJ10-0FB0		1.100	7.000	B	4AM48 42-4TJ10-0FB1		1.100	7.000

Degrees of protection IP23 and IP54, see page 10/25.

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> The 4AT types are only supplied with screw terminals.

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.



# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

4AM, 4AT isolating,  
control and mains transformers

With one input voltage

Rated input voltage  $U_{1N}$  230 V  $\pm 5\%$ ,

rated output voltage  $U_{2N}$  110 V

Degree of protection IP23, IP54



PU (UNIT, SET, M) = 1  
 PS = 1 unit (You can order this quantity or a multiple thereof.)  
 PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{shortt.}$ kVA	DT <sup>2)</sup>	Screw terminals <sup>3)</sup> / flat connectors <sup>3)</sup>		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-4TJ10-0FC0		0.240	2.700	B	4AM32 42-4TJ10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-4TJ10-0FC0		0.260	3.300	B	4AM34 42-4TJ10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-4TJ10-0FC0		0.320	5.600	B	4AM38 42-4TJ10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-4TJ10-0FC0		0.590	6.600	B	4AM40 42-4TJ10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-4TJ10-0FC0		0.670	7.400	B	4AM43 42-4TJ10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-4TJ10-0FC0		1.100	8.300	B	4AM46 42-4TJ10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-4TJ10-0FC0		1.100	9.900	B	4AM48 42-4TJ10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-4TJ10-0FC0		1.700	10.800	B	4AM52 42-4TJ10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-4TJ10-0FC0		1.900	13.900	B	4AM55 42-4TJ10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-4TJ10-0FC0		2.000	16.900	B	4AM57 42-4TJ10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-4TJ10-0FC0		4.100	26.700	B	4AM61 42-4TJ10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-4TJ10-0FC0		4.700	30.700	B	4AM64 42-4TJ10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-4TJ10-0FC0		6.400	36.700	B	4AM65 42-4TJ10-0FC1		6.400	36.700
3.6	16	B	4AT30 32-4TJ10-0FC0		9.900	38.000	--	--		--	--
4.5	18.5	B	4AT36 12-4TJ10-0FC0		6.900	41.400	--	--		--	--
5.6	22.5	B	4AT36 32-4TJ10-0FC0		11.300	47.300	--	--		--	--
7.1	28.5	B	4AT39 12-4TJ10-0FC0		12.800	61.800	--	--		--	--
9	30	B	4AT39 32-4TJ10-0FC0		22.100	71.000	--	--		--	--
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-4TJ10-0FD0		0.240	2.700	B	4AM32 42-4TJ10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-4TJ10-0FD0		0.260	3.300	B	4AM34 42-4TJ10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-4TJ10-0FD0		0.320	5.600	B	4AM38 42-4TJ10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-4TJ10-0FD0		0.590	6.600	B	4AM40 42-4TJ10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-4TJ10-0FD0		0.670	7.400	B	4AM43 42-4TJ10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-4TJ10-0FD0		1.100	8.300	B	4AM46 42-4TJ10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-4TJ10-0FD0		1.100	9.900	B	4AM48 42-4TJ10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-4TJ10-0FD0		1.700	10.800	B	4AM52 42-4TJ10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-4TJ10-0FD0		1.900	13.900	B	4AM55 42-4TJ10-0FD1		1.900	13.900
0.75	5	B	4AM57 42-4TJ10-0FD0		2.000	16.900	B	4AM57 42-4TJ10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-4TJ10-0FD0		4.100	26.700	B	4AM61 42-4TJ10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-4TJ10-0FD0		4.700	30.700	B	4AM64 42-4TJ10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-4TJ10-0FD0		6.400	36.700	B	4AM65 42-4TJ10-0FD1		6.400	36.700
3.15	16	B	4AT30 32-4TJ10-0FD0		9.900	38.000	--	--		--	--
4	18.5	B	4AT36 12-4TJ10-0FD0		6.900	41.400	--	--		--	--
5	22.5	B	4AT36 32-4TJ10-0FD0		11.300	47.300	--	--		--	--
6.3	28.5	B	4AT39 12-4TJ10-0FD0		12.800	61.800	--	--		--	--
8	30	B	4AT39 32-4TJ10-0FD0		22.100	71.000	--	--		--	--

1) For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

2) The delivery time class depends on the quantity, see page 10/4 "Options".

3) The 4AT types are only supplied with screw terminals.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM, 4AT isolating, control and mains transformers

With one input voltage

Rated input voltage  $U_{1N}$  230 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  2  $\times$  115 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{short.}^{1)}$	DT <sup>2)</sup>	Screw terminals <sup>3)/</sup> flat connectors <sup>3)</sup>		Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.	Price per PU	kg	kg
<b>Degree of protection IP00, standard version<sup>4)</sup></b>						
0.063	0.19	B	4AM32 42-4TD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-4TD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-4TD40-0FA0		0.350	2.700
0.25	0.85	B	4AM40 42-4TD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-4TD40-0FA0		0.670	4.500
0.4	1.44	B	4AM46 42-4TD40-0FA0		1.100	5.400
0.5	2	B	4AM48 42-4TD40-0FA0		1.100	7.000
0.63	2.35	B	4AM52 42-4TD40-0FA0		1.700	7.900
0.8	3.4	B	4AM55 42-4TD40-0FA0		1.900	11.000
1	5	B	4AM57 42-4TD40-0FA0		2.000	14.000
1.6	7.3	B	4AM61 42-4TD40-0FA0		4.320	19.000
2	9.7	B	4AM64 42-4TD40-0FA0		4.700	23.000
2.5	13.3	B	4AM65 42-4TD40-0FA0		6.400	29.000
4	16	B	4AT30 32-4TD40-0FA0		9.900	30.300
5	18.5	B	4AT36 12-4TD40-0FA0		6.900	33.700
6.3	22.5	B	4AT36 32-4TD40-0FA0		11.300	39.600
8	28.5	B	4AT39 12-4TD40-0FA0		12.800	47.900
10	30	B	4AT39 32-4TD40-0FA0		22.100	57.100
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>						
0.063	0.19	B	4AM32 42-4TD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-4TD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-4TD40-0FA0		0.350	2.700
0.25	0.85	B	4AM40 42-4TD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-4TD40-0FB0		0.740	4.500
0.4	1.44	B	4AM46 42-4TD40-0FB0		1.100	5.400
0.5	2	B	4AM48 42-4TD40-0FB0		1.100	7.000
<b>Degree of protection IP23</b>						
0.057	0.19	B	4AM32 42-4TD40-0FC0		0.240	2.700
0.09	0.31	B	4AM34 42-4TD40-0FC0		0.260	3.300
0.145	0.49	B	4AM38 42-4TD40-0FC0		0.320	5.600
0.225	0.85	B	4AM40 42-4TD40-0FC0		0.590	6.600
0.268	1.12	B	4AM43 42-4TD40-0FC0		0.670	7.400
0.34	1.44	B	4AM46 42-4TD40-0FC0		1.100	8.300
0.425	2	B	4AM48 42-4TD40-0FC0		1.100	9.900
0.535	2.35	B	4AM52 42-4TD40-0FC0		1.700	10.800
0.68	3.4	B	4AM55 42-4TD40-0FC0		1.900	13.900
0.85	5	B	4AM57 42-4TD40-0FC0		2.000	16.900
1.36	7.3	B	4AM61 42-4TD40-0FC0		4.100	26.700
1.7	9.7	B	4AM64 42-4TD40-0FC0		4.700	30.700
2.13	13.3	B	4AM65 42-4TD40-0FC0		6.400	36.700
3.6	16	B	4AT30 32-4TD40-0FC0		9.900	38.000
4.5	18.5	B	4AT36 12-4TD40-0FC0		6.900	41.400
5.6	22.5	B	4AT36 32-4TD40-0FC0		11.300	47.300
7.1	28.5	B	4AT39 12-4TD40-0FC0		12.800	61.800
9	30	B	4AT39 32-4TD40-0FC0		22.100	71.000
<b>Degree of protection IP54</b>						
0.05	0.19	B	4AM32 42-4TD40-0FD0		0.240	2.700
0.08	0.31	B	4AM34 42-4TD40-0FD0		0.260	3.300
0.128	0.49	B	4AM38 42-4TD40-0FD0		0.320	5.600
0.2	0.85	B	4AM40 42-4TD40-0FD0		0.590	6.600
0.236	1.12	B	4AM43 42-4TD40-0FD0		0.670	7.400
0.3	1.44	B	4AM46 42-4TD40-0FD0		1.100	8.300
0.375	2	B	4AM48 42-4TD40-0FD0		1.100	9.900
0.475	2.35	B	4AM52 42-4TD40-0FD0		1.700	10.800
0.6	3.4	B	4AM55 42-4TD40-0FD0		1.900	13.900
0.75	5	B	4AM57 42-4TD40-0FD0		2.000	16.900
1.2	7.3	B	4AM61 42-4TD40-0FD0		4.100	26.700
1.5	9.7	B	4AM64 42-4TD40-0FD0		4.700	30.700
1.875	13.3	B	4AM65 42-4TD40-0FD0		6.400	36.700
3.15	16	B	4AT30 32-4TD40-0FD0		9.900	38.000
4	18.5	B	4AT36 12-4TD40-0FD0		6.900	41.400
5	22.5	B	4AT36 32-4TD40-0FD0		11.300	47.300
6.3	28.5	B	4AT39 12-4TD40-0FD0		12.800	61.800
8	30	B	4AT39 32-4TD40-0FD0		22.100	71.000

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> The 4AT types are only supplied with screw terminals.

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

4AM, 4AT isolating,  
control and mains transformers

With one input voltage

Rated input voltage  $U_{1N}$  230 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  230 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ KVA	Short-time rating $P_{short.}$ <sup>1)</sup> KVA	DT <sup>2)</sup>	Screw terminals <sup>3)/</sup> flat connectors <sup>3)</sup>		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Degree of protection IP00, standard version<sup>4)</sup></b>											
0.063	0.19	▶	4AM32 42-4TT10-0FA0		0.240	1.400	B	4AM32 42-4TT10-0FA1		0.240	1.400
0.1	0.31	▶	4AM34 42-4TT10-0FA0		0.260	2.000	B	4AM34 42-4TT10-0FA1		0.260	2.000
0.16	0.49	▶	4AM38 42-4TT10-0FA0		0.320	2.700	B	4AM38 42-4TT10-0FA1		0.320	2.700
0.25	0.85	▶	4AM40 42-4TT10-0FA0		0.590	3.700	B	4AM40 42-4TT10-0FA1		0.590	3.700
0.315	1.12	▶	4AM43 42-4TT10-0FA0		0.670	4.500	B	4AM43 42-4TT10-0FA1		0.670	4.500
0.4	1.44	▶	4AM46 42-4TT10-0FA0		1.100	5.400	B	4AM46 42-4TT10-0FA1		1.100	5.400
0.5	2	▶	4AM48 42-4TT10-0FA0		1.100	7.000	B	4AM48 42-4TT10-0FA1		1.100	7.000
0.63	2.35	▶	4AM52 42-4TT10-0FA0		1.700	7.900	B	4AM52 42-4TT10-0FA1		1.700	7.900
0.8	3.4	▶	4AM55 42-4TT10-0FA0		1.900	11.000	B	4AM55 42-4TT10-0FA1		1.900	11.000
1	5	▶	4AM57 42-4TT10-0FA0		2.000	14.000	B	4AM57 42-4TT10-0FA1		2.000	14.000
1.6	7.3	▶	4AM61 42-4TT10-0FA0		4.100	19.000	B	4AM61 42-4TT10-0FA1		4.100	19.000
2	9.7	▶	4AM64 42-4TT10-0FA0		4.700	23.000	B	4AM64 42-4TT10-0FA1		4.700	23.000
2.5	13.3	▶	4AM65 42-4TT10-0FA0		6.400	29.000	B	4AM65 42-4TT10-0FA1		6.400	29.000
4	16	▶	4AT30 32-4TT10-0FA0		9.900	30.300	--	--		--	--
5	18.5	B	4AT36 12-4TT10-0FA0		6.900	33.700	--	--		--	--
6.3	22.5	B	4AT36 32-4TT10-0FA0		11.300	39.600	--	--		--	--
8	28.5	B	4AT39 12-4TT10-0FA0		12.800	47.900	--	--		--	--
10	30	B	4AT39 32-4TT10-0FA0		22.100	57.100	--	--		--	--
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>											
0.063	0.19	▶	4AM32 42-4TT10-0FA0		0.240	1.400	B	4AM32 42-4TT10-0FA1		0.240	1.400
0.1	0.31	▶	4AM34 42-4TT10-0FA0		0.260	2.000	B	4AM34 42-4TT10-0FA1		0.260	2.000
0.16	0.49	▶	4AM38 42-4TT10-0FA0		0.320	2.700	B	4AM38 42-4TT10-0FA1		0.320	2.700
0.25	0.85	▶	4AM40 42-4TT10-0FA0		0.590	3.700	B	4AM40 42-4TT10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-4TT10-0FB0		0.670	4.500	B	4AM43 42-4TT10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-4TT10-0FB0		1.100	5.400	B	4AM46 42-4TT10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-4TT10-0FB0		1.100	7.000	B	4AM48 42-4TT10-0FB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-4TT10-0FC0		0.240	2.700	B	4AM32 42-4TT10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-4TT10-0FC0		0.260	3.300	B	4AM34 42-4TT10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-4TT10-0FC0		0.320	5.600	B	4AM38 42-4TT10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-4TT10-0FC0		0.590	6.600	B	4AM40 42-4TT10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-4TT10-0FC0		0.670	7.400	B	4AM43 42-4TT10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-4TT10-0FC0		1.100	8.300	B	4AM46 42-4TT10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-4TT10-0FC0		1.100	9.900	B	4AM48 42-4TT10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-4TT10-0FC0		1.700	10.800	B	4AM52 42-4TT10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-4TT10-0FC0		1.900	13.900	B	4AM55 42-4TT10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-4TT10-0FC0		2.000	16.900	B	4AM57 42-4TT10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-4TT10-0FC0		4.100	26.700	B	4AM61 42-4TT10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-4TT10-0FC0		4.700	30.700	B	4AM64 42-4TT10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-4TT10-0FC0		6.400	36.700	B	4AM65 42-4TT10-0FC1		6.400	36.700
3.6	16	B	4AT30 32-4TT10-0FC0		9.900	38.000	--	--		--	--
4.5	18.5	B	4AT36 12-4TT10-0FC0		6.900	41.400	--	--		--	--
5.6	22.5	B	4AT36 32-4TT10-0FC0		11.300	47.300	--	--		--	--
7.1	28.5	B	4AT39 12-4TT10-0FC0		12.800	61.800	--	--		--	--
9	30	B	4AT39 32-4TT10-0FC0		22.100	71.000	--	--		--	--
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-4TT10-0FD0		0.240	2.700	B	4AM32 42-4TT10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-4TT10-0FD0		0.260	3.300	B	4AM34 42-4TT10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-4TT10-0FD0		0.320	5.600	B	4AM38 42-4TT10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-4TT10-0FD0		0.590	6.600	B	4AM40 42-4TT10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-4TT10-0FD0		0.670	7.400	B	4AM43 42-4TT10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-4TT10-0FD0		1.100	8.300	B	4AM46 42-4TT10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-4TT10-0FD0		1.100	9.900	B	4AM48 42-4TT10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-4TT10-0FD0		1.700	10.800	B	4AM52 42-4TT10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-4TT10-0FD0		1.900	13.900	B	4AM55 42-4TT10-0FD1		1.830	13.900
0.75	5	B	4AM57 42-4TT10-0FD0		2.000	16.900	B	4AM57 42-4TT10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-4TT10-0FD0		4.100	26.700	B	4AM61 42-4TT10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-4TT10-0FD0		4.700	30.700	B	4AM64 42-4TT10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-4TT10-0FD0		6.400	36.700	B	4AM65 42-4TT10-0FD1		6.400	36.700
3.15	16	B	4AT30 32-4TT10-0FD0		9.900	38.000	--	--		--	--
4	18.5	B	4AT36 12-4TT10-0FD0		6.900	41.400	--	--		--	--
5	22.5	B	4AT36 32-4TT10-0FD0		11.300	47.300	--	--		--	--
6.3	28.5	B	4AT39 12-4TT10-0FD0		12.800	61.800	--	--		--	--
8	30	B	4AT39 32-4TT10-0FD0		22.100	71.000	--	--		--	--

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> The 4AT types are only supplied with screw terminals.

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers



### 4AM, 4AT isolating, control and mains transformers

With one input voltage

Rated input voltage  $U_{1N}$  400 V  $\pm$  5 %,  
rated output voltage  $U_{2N}$  110 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}^1)$ kVA	DT <sup>2)</sup>	Screw terminals <sup>3)/</sup> flat connectors <sup>3)</sup> 	Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals 	Cu weight per PU approx. kg	Total weight per PU approx. kg	
										Order No.
<b>Degree of protection IP00, standard version<sup>4)</sup></b>										
0.063	0.19		4AM32 42-5AJ10-0FA0	0.240	1.400	B	4AM32 42-5AJ10-0FA1	0.240	1.400	
0.1	0.31		4AM34 42-5AJ10-0FA0	0.260	2.000	B	4AM34 42-5AJ10-0FA1	0.260	2.000	
0.16	0.49		4AM38 42-5AJ10-0FA0	0.320	2.700	B	4AM38 42-5AJ10-0FA1	0.320	2.700	
0.25	0.85		4AM40 42-5AJ10-0FA0	0.590	3.700	B	4AM40 42-5AJ10-0FA1	0.590	3.700	
0.315	1.12		4AM43 42-5AJ10-0FA0	0.670	4.500	B	4AM43 42-5AJ10-0FA1	0.670	4.500	
0.4	1.44		4AM46 42-5AJ10-0FA0	1.100	5.400	B	4AM46 42-5AJ10-0FA1	1.100	5.400	
0.5	2		4AM48 42-5AJ10-0FA0	1.100	7.000	B	4AM48 42-5AJ10-0FA1	1.100	7.000	
0.63	2.35		4AM52 42-5AJ10-0FA0	1.700	7.900	B	4AM52 42-5AJ10-0FA1	1.700	7.900	
0.8	3.4		4AM55 42-5AJ10-0FA0	1.900	11.000	B	4AM55 42-5AJ10-0FA1	1.900	11.000	
1	5		4AM57 42-5AJ10-0FA0	2.000	14.000	B	4AM57 42-5AJ10-0FA1	2.000	14.000	
1.6	7.3		4AM61 42-5AJ10-0FA0	4.100	19.000	B	4AM61 42-5AJ10-0FA1	4.100	19.000	
2	9.7		4AM64 42-5AJ10-0FA0	4.700	23.000	B	4AM64 42-5AJ10-0FA1	4.700	23.000	
2.5	13.3		4AM65 42-5AJ10-0FA0	6.400	29.000	B	4AM65 42-5AJ10-0FA1	6.400	29.000	
4	16	B	4AT30 32-5AJ10-0FA0	9.900	30.300	--	--	--	--	
5	18.5	B	4AT36 12-5AJ10-0FA0	6.900	33.700	--	--	--	--	
6.3	22.5	B	4AT36 32-5AJ10-0FA0	11.300	39.600	--	--	--	--	
8	28.5	B	4AT39 12-5AJ10-0FA0	12.800	47.900	--	--	--	--	
10	30	B	4AT39 32-5AJ10-0FA0	22.100	57.100	--	--	--	--	
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>										
0.063	0.19		4AM32 42-5AJ10-0FA0	0.240	1.400	B	4AM32 42-5AJ10-0FA1	0.240	1.400	
0.1	0.31		4AM34 42-5AJ10-0FA0	0.260	2.000	B	4AM34 42-5AJ10-0FA1	0.260	2.000	
0.16	0.49		4AM38 42-5AJ10-0FA0	0.320	2.700	B	4AM38 42-5AJ10-0FA1	0.320	2.700	
0.25	0.85		4AM40 42-5AJ10-0FA0	0.590	3.700	B	4AM40 42-5AJ10-0FA1	0.590	3.700	
0.315	1.12	B	4AM43 42-5AJ10-0FB0	0.670	4.500	B	4AM43 42-5AJ10-0FB1	0.670	4.500	
0.4	1.44	B	4AM46 42-5AJ10-0FB0	1.100	5.400	B	4AM46 42-5AJ10-0FB1	1.100	5.400	
0.5	2	B	4AM48 42-5AJ10-0FB0	1.100	7.000	B	4AM48 42-5AJ10-0FB1	1.100	7.000	
<b>Degree of protection IP23</b>										
0.057	0.19	B	4AM32 42-5AJ10-0FC0	0.240	2.700	B	4AM32 42-5AJ10-0FC1	0.240	2.700	
0.09	0.31	B	4AM34 42-5AJ10-0FC0	0.260	3.300	B	4AM34 42-5AJ10-0FC1	0.260	3.300	
0.145	0.49	B	4AM38 42-5AJ10-0FC0	0.320	5.600	B	4AM38 42-5AJ10-0FC1	0.320	5.600	
0.225	0.85	B	4AM40 42-5AJ10-0FC0	0.590	6.600	B	4AM40 42-5AJ10-0FC1	0.590	6.600	
0.268	1.12	B	4AM43 42-5AJ10-0FC0	0.670	7.400	B	4AM43 42-5AJ10-0FC1	0.670	7.400	
0.34	1.44	B	4AM46 42-5AJ10-0FC0	1.100	8.300	B	4AM46 42-5AJ10-0FC1	1.100	8.300	
0.425	2	B	4AM48 42-5AJ10-0FC0	1.100	9.900	B	4AM48 42-5AJ10-0FC1	1.100	9.900	
0.535	2.35	B	4AM52 42-5AJ10-0FC0	1.700	10.800	B	4AM52 42-5AJ10-0FC1	1.700	10.800	
0.68	3.4	B	4AM55 42-5AJ10-0FC0	1.900	13.900	B	4AM55 42-5AJ10-0FC1	1.900	13.900	
0.85	5	B	4AM57 42-5AJ10-0FC0	2.000	16.900	B	4AM57 42-5AJ10-0FC1	2.000	16.900	
1.36	7.3	B	4AM61 42-5AJ10-0FC0	4.100	26.700	B	4AM61 42-5AJ10-0FC1	4.100	26.700	
1.7	9.7	B	4AM64 42-5AJ10-0FC0	4.700	30.700	B	4AM64 42-5AJ10-0FC1	4.700	30.700	
2.13	13.3	B	4AM65 42-5AJ10-0FC0	6.400	36.700	B	4AM65 42-5AJ10-0FC1	6.400	36.700	
3.6	16	B	4AT30 32-5AJ10-0FC0	9.900	38.000	--	--	--	--	
4.5	18.5	B	4AT36 12-5AJ10-0FC0	6.900	41.400	--	--	--	--	
5.6	22.5	B	4AT36 32-5AJ10-0FC0	11.300	47.300	--	--	--	--	
7.1	28.5	B	4AT39 12-5AJ10-0FC0	12.800	61.800	--	--	--	--	
9	30	B	4AT39 32-5AJ10-0FC0	22.100	71.000	--	--	--	--	
<b>Degree of protection IP54</b>										
0.05	0.19	B	4AM32 42-5AJ10-0FD0	0.240	2.700	B	4AM32 42-5AJ10-0FD1	0.240	2.700	
0.08	0.31	B	4AM34 42-5AJ10-0FD0	0.260	3.300	B	4AM34 42-5AJ10-0FD1	0.260	3.300	
0.128	0.49	B	4AM38 42-5AJ10-0FD0	0.320	5.600	B	4AM38 42-5AJ10-0FD1	0.320	5.600	
0.2	0.85	B	4AM40 42-5AJ10-0FD0	0.590	6.600	B	4AM40 42-5AJ10-0FD1	0.590	6.600	
0.236	1.12	B	4AM43 42-5AJ10-0FD0	0.670	7.400	B	4AM43 42-5AJ10-0FD1	0.670	7.400	
0.3	1.44	B	4AM46 42-5AJ10-0FD0	1.100	8.300	B	4AM46 42-5AJ10-0FD1	1.100	8.300	
0.375	2	B	4AM48 42-5AJ10-0FD0	1.100	9.900	B	4AM48 42-5AJ10-0FD1	1.100	9.900	
0.475	2.35	B	4AM52 42-5AJ10-0FD0	1.700	10.800	B	4AM52 42-5AJ10-0FD1	1.700	10.800	
0.6	3.4	B	4AM55 42-5AJ10-0FD0	1.900	13.900	B	4AM55 42-5AJ10-0FD1	1.900	13.900	
0.75	5	B	4AM57 42-5AJ10-0FD0	2.000	16.900	B	4AM57 42-5AJ10-0FD1	2.000	16.900	
1.2	7.3	B	4AM61 42-5AJ10-0FD0	4.100	26.700	B	4AM61 42-5AJ10-0FD1	4.100	26.700	
1.5	9.7	B	4AM64 42-5AJ10-0FD0	4.700	30.700	B	4AM64 42-5AJ10-0FD1	4.700	30.700	
1.875	13.3	B	4AM65 42-5AJ10-0FD0	6.400	36.700	B	4AM65 42-5AJ10-0FD1	6.400	36.700	
3.15	16	B	4AT30 32-5AJ10-0FD0	9.900	38.000	--	--	--	--	
4	18.5	B	4AT36 12-5AJ10-0FD0	6.900	41.400	--	--	--	--	
5	22.5	B	4AT36 32-5AJ10-0FD0	11.300	47.300	--	--	--	--	
6.3	28.5	B	4AT39 12-5AJ10-0FD0	12.800	61.800	--	--	--	--	
8	30	B	4AT39 32-5AJ10-0FD0	22.100	71.000	--	--	--	--	

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 \*Options\*.

<sup>3)</sup> The 4AT types are only supplied with screw terminals.

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers


4AM, 4AT isolating,  
control and mains transformers

With one input voltage

Rated input voltage  $U_{1N}$  400 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  2 x 115 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ <sup>1)</sup> kVA	DT <sup>2)</sup>	Screw terminals <sup>3)/</sup> flat connectors <sup>3)</sup> Order No.		Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Degree of protection IP00, standard version<sup>4)</sup></b>						
0.063	0.19	B	4AM32 42-5AD40-0FA0		0.300	1.400
0.1	0.31	B	4AM34 42-5AD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-5AD40-0FA0		0.360	2.700
0.25	0.85	B	4AM40 42-5AD40-0FA0		0.650	3.700
0.315	1.12	B	4AM43 42-5AD40-0FA0		0.670	4.500
0.4	1.44	B	4AM46 42-5AD40-0FA0		1.100	5.400
0.5	2	B	4AM48 42-5AD40-0FA0		1.100	7.000
0.63	2.35	B	4AM52 42-5AD40-0FA0		1.700	7.900
0.8	3.4	B	4AM55 42-5AD40-0FA0		1.900	11.000
1	5	B	4AM57 42-5AD40-0FA0		2.000	14.000
1.6	7.3	B	4AM61 42-5AD40-0FA0		4.100	19.000
2	9.7	B	4AM64 42-5AD40-0FA0		4.700	23.000
2.5	13.3	B	4AM65 42-5AD40-0FA0		6.400	29.000
4	16	B	4AT30 32-5AD40-0FA0		9.900	30.300
5	18.5	B	4AT36 12-5AD40-0FA0		6.900	33.700
6.3	22.5	B	4AT36 32-5AD40-0FA0		11.300	39.600
8	28.5	B	4AT39 12-5AD40-0FA0		12.800	47.900
10	30	B	4AT39 32-5AD40-0FA0		22.100	57.100
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>						
0.063	0.19	B	4AM32 42-5AD40-0FA0		0.300	1.400
0.1	0.31	B	4AM34 42-5AD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-5AD40-0FA0		0.360	2.700
0.25	0.85	B	4AM40 42-5AD40-0FA0		0.650	3.700
0.315	1.12	B	4AM43 42-5AD40-0FB0		0.670	4.500
0.4	1.44	B	4AM46 42-5AD40-0FB0		1.100	5.400
0.5	2	B	4AM48 42-5AD40-0FB0		1.100	7.000
<b>Degree of protection IP23</b>						
0.057	0.19	B	4AM32 42-5AD40-0FC0		0.240	2.700
0.09	0.31	B	4AM34 42-5AD40-0FC0		0.260	3.300
0.145	0.49	B	4AM38 42-5AD40-0FC0		0.320	5.600
0.225	0.85	B	4AM40 42-5AD40-0FC0		0.590	6.600
0.268	1.12	B	4AM43 42-5AD40-0FC0		0.670	7.400
0.34	1.44	B	4AM46 42-5AD40-0FC0		1.100	8.300
0.425	2	B	4AM48 42-5AD40-0FC0		1.100	9.900
0.535	2.35	B	4AM52 42-5AD40-0FC0		1.700	10.800
0.68	3.4	B	4AM55 42-5AD40-0FC0		1.900	13.900
0.85	5	B	4AM57 42-5AD40-0FC0		2.000	16.900
1.36	7.3	B	4AM61 42-5AD40-0FC0		4.100	26.700
1.7	9.7	B	4AM64 42-5AD40-0FC0		4.700	30.700
2.13	13.3	B	4AM65 42-5AD40-0FC0		6.400	36.700
3.6	16	B	4AT30 32-5AD40-0FC0		9.900	38.000
4.5	18.5	B	4AT36 12-5AD40-0FC0		6.900	41.400
5.6	22.5	B	4AT36 32-5AD40-0FC0		11.300	47.300
7.1	28.5	B	4AT39 12-5AD40-0FC0		12.800	61.800
9	30	B	4AT39 32-5AD40-0FC0		22.100	71.000
<b>Degree of protection IP54</b>						
0.05	0.19	B	4AM32 42-5AD40-0FD0		0.240	2.700
0.08	0.31	B	4AM34 42-5AD40-0FD0		0.260	3.300
0.128	0.49	B	4AM38 42-5AD40-0FD0		0.320	5.600
0.2	0.85	B	4AM40 42-5AD40-0FD0		0.590	6.600
0.236	1.12	B	4AM43 42-5AD40-0FD0		0.670	7.400
0.3	1.44	B	4AM46 42-5AD40-0FD0		1.100	8.300
0.375	2	B	4AM48 42-5AD40-0FD0		1.100	9.900
0.475	2.35	B	4AM52 42-5AD40-0FD0		1.700	10.800
0.6	3.4	B	4AM55 42-5AD40-0FD0		1.900	13.900
0.75	5	B	4AM57 42-5AD40-0FD0		2.000	16.900
1.2	7.3	B	4AM61 42-5AD40-0FD0		4.100	26.700
1.5	9.7	B	4AM64 42-5AD40-0FD0		4.700	30.700
1.875	13.3	B	4AM65 42-5AD40-0FD0		6.400	36.700
3.15	16	B	4AT30 32-5AD40-0FD0		9.900	38.000
4	18.5	B	4AT36 12-5AD40-0FD0		6.900	41.400
5	22.5	B	4AT36 32-5AD40-0FD0		11.300	47.300
6.3	28.5	B	4AT39 12-5AD40-0FD0		12.800	61.800
8	30	B	4AT39 32-5AD40-0FD0		22.100	71.000

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> The 4AT types are only supplied with screw terminals.

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM, 4AT isolating, control and mains transformers

With one input voltage

Rated input voltage  $U_{1N}$  400 V ± 5 %,  
rated output voltage  $U_{2N}$  230 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{short}$ <sup>1)</sup>	DT <sup>2)</sup>	Screw terminals <sup>3)</sup> / flat connectors <sup>3)</sup>		Cu weight per PU approx.	Total weight per PU approx.	DT <sup>2)</sup>	Cage Clamp terminals	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.	Price per PU	kg	kg		Order No.	Price per PU	kg	kg
<b>Degree of protection IP00, standard version<sup>4)</sup></b>											
0.063	0.19	▶	4AM32 42-5AT10-0FA0		0.240	1.400	B	4AM32 42-5AT10-0FA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5AT10-0FA0		0.260	2.000	▶	4AM34 42-5AT10-0FA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5AT10-0FA0		0.320	2.700	B	4AM38 42-5AT10-0FA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5AT10-0FA0		0.590	3.700	B	4AM40 42-5AT10-0FA1		0.590	3.700
0.315	1.12	▶	4AM43 42-5AT10-0FA0		0.670	4.500	B	4AM43 42-5AT10-0FA1		0.670	4.500
0.4	1.44	▶	4AM46 42-5AT10-0FA0		1.100	5.400	▶	4AM46 42-5AT10-0FA1		1.100	5.400
0.5	2	▶	4AM48 42-5AT10-0FA0		1.100	7.000	B	4AM48 42-5AT10-0FA1		1.100	7.000
0.63	2.35	▶	4AM52 42-5AT10-0FA0		1.700	7.900	B	4AM52 42-5AT10-0FA1		1.700	7.900
0.8	3.4	▶	4AM55 42-5AT10-0FA0		1.900	11.000	B	4AM55 42-5AT10-0FA1		1.900	11.000
1	5	▶	4AM57 42-5AT10-0FA0		2.000	14.000	▶	4AM57 42-5AT10-0FA1		2.000	14.000
1.6	7.3	▶	4AM61 42-5AT10-0FA0		4.100	19.000	B	4AM61 42-5AT10-0FA1		4.100	19.000
2	9.7	▶	4AM64 42-5AT10-0FA0		4.700	23.000	B	4AM64 42-5AT10-0FA1		4.700	23.000
2.5	13.3	▶	4AM65 42-5AT10-0FA0		6.400	29.000	B	4AM65 42-5AT10-0FA1		6.400	29.000
4	16	▶	4AT30 32-5AT10-0FA0		9.900	30.300	--	--		--	--
5	18.5	▶	4AT36 12-5AT10-0FA0		6.900	33.700	--	--		--	--
6.3	22.5	▶	4AT36 32-5AT10-0FA0		11.300	37.000	--	--		--	--
8	28.5	B	4AT39 12-5AT10-0FA0		12.800	47.900	--	--		--	--
10	30	B	4AT39 32-5AT10-0FA0		22.100	57.100	--	--		--	--
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>											
0.063	0.19	▶	4AM32 42-5AT10-0FA0		0.240	1.400	B	4AM32 42-5AT10-0FA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5AT10-0FA0		0.260	2.000	P	4AM34 42-5AT10-0FA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5AT10-0FA0		0.320	2.700	B	4AM38 42-5AT10-0FA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5AT10-0FA0		0.590	3.700	B	4AM40 42-5AT10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5AT10-0FB0		0.670	4.500	B	4AM43 42-5AT10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-5AT10-0FB0		1.100	5.400	B	4AM46 42-5AT10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-5AT10-0FB0		1.100	7.000	B	4AM48 42-5AT10-0FB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-5AT10-0FC0		0.240	2.700	B	4AM32 42-5AT10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-5AT10-0FC0		0.260	3.300	B	4AM34 42-5AT10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-5AT10-0FC0		0.320	5.600	B	4AM38 42-5AT10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-5AT10-0FC0		0.590	6.600	B	4AM40 42-5AT10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-5AT10-0FC0		0.670	7.400	B	4AM43 42-5AT10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-5AT10-0FC0		1.100	8.300	B	4AM46 42-5AT10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-5AT10-0FC0		1.100	9.900	B	4AM48 42-5AT10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-5AT10-0FC0		1.700	10.800	B	4AM52 42-5AT10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-5AT10-0FC0		1.900	13.900	B	4AM55 42-5AT10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-5AT10-0FC0		2.000	16.900	B	4AM57 42-5AT10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-5AT10-0FC0		4.100	26.700	B	4AM61 42-5AT10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-5AT10-0FC0		4.700	30.700	B	4AM64 42-5AT10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-5AT10-0FC0		6.400	36.700	B	4AM65 42-5AT10-0FC1		6.400	36.700
3.6	16	B	4AT30 32-5AT10-0FC0		9.900	38.000	--	--		--	--
4.5	18.5	B	4AT36 12-5AT10-0FC0		6.900	41.400	--	--		--	--
5.6	22.5	B	4AT36 32-5AT10-0FC0		11.300	47.300	--	--		--	--
7.1	28.5	B	4AT39 12-5AT10-0FC0		12.800	61.800	--	--		--	--
9	30	B	4AT39 32-5AT10-0FC0		22.100	71.000	--	--		--	--
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-5AT10-0FD0		0.240	2.700	B	4AM32 42-5AT10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-5AT10-0FD0		0.260	3.300	B	4AM34 42-5AT10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-5AT10-0FD0		0.320	5.600	B	4AM38 42-5AT10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-5AT10-0FD0		0.590	6.600	B	4AM40 42-5AT10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-5AT10-0FD0		0.670	7.400	B	4AM43 42-5AT10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-5AT10-0FD0		1.100	8.300	B	4AM46 42-5AT10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-5AT10-0FD0		1.100	9.900	B	4AM48 42-5AT10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-5AT10-0FD0		1.700	10.800	B	4AM52 42-5AT10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-5AT10-0FD0		1.900	13.900	B	4AM55 42-5AT10-0FD1		1.900	13.900
0.75	5	B	4AM57 42-5AT10-0FD0		2.000	16.900	B	4AM57 42-5AT10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-5AT10-0FD0		4.100	26.700	B	4AM61 42-5AT10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-5AT10-0FD0		4.700	30.700	B	4AM64 42-5AT10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-5AT10-0FD0		6.400	36.700	B	4AM65 42-5AT10-0FD1		6.400	36.700
3.15	16	B	4AT30 32-5AT10-0FD0		9.900	38.000	--	--		--	--
4	18.5	B	4AT36 12-5AT10-0FD0		6.900	41.400	--	--		--	--
5	22.5	B	4AT36 32-5AT10-0FD0		11.300	47.300	--	--		--	--
6.3	28.5	B	4AT39 12-5AT10-0FD0		12.800	61.800	--	--		--	--
8	30	B	4AT39 32-5AT10-0FD0		22.100	71.000	--	--		--	--

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 \*Options\*.

<sup>3)</sup> The 4AT types are only supplied with screw terminals.

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers



4AM, 4AT isolating, control and mains transformers

With one input voltage

Rated input voltage  $U_{1N}$  440 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  110 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ KVA	Short-time rating $P_{short.}^{1)}$ KVA	DT <sup>2)</sup>	Screw terminals <sup>3)/</sup> flat connectors <sup>3)</sup> Order No.		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals  Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Degree of protection IP00, standard version<sup>4)</sup></b>											
0.063	0.19	B	4AM32 42-5CJ10-0FA0		0.240	1.400	B	4AM32 42-5CJ10-0FA1		0.240	1.400
0.1	0.31	B	4AM34 42-5CJ10-0FA0		0.260	2.000	B	4AM34 42-5CJ10-0FA1		0.260	2.000
0.16	0.49	B	4AM38 42-5CJ10-0FA0		0.320	2.700	B	4AM38 42-5CJ10-0FA1		0.320	2.700
0.25	0.85	B	4AM40 42-5CJ10-0FA0		0.590	3.700	B	4AM40 42-5CJ10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5CJ10-0FA0		0.670	4.500	B	4AM43 42-5CJ10-0FA1		0.670	4.500
0.4	1.44	B	4AM46 42-5CJ10-0FA0		1.100	5.400	B	4AM46 42-5CJ10-0FA1		1.100	5.400
0.5	2	B	4AM48 42-5CJ10-0FA0		1.100	7.000	B	4AM48 42-5CJ10-0FA1		1.100	7.000
0.63	2.35	B	4AM52 42-5CJ10-0FA0		1.700	7.900	B	4AM52 42-5CJ10-0FA1		1.700	7.900
0.8	3.4	B	4AM55 42-5CJ10-0FA0		1.900	11.000	B	4AM55 42-5CJ10-0FA1		1.900	11.000
1	5	B	4AM57 42-5CJ10-0FA0		2.000	14.000	B	4AM57 42-5CJ10-0FA1		2.000	14.000
1.6	7.3	B	4AM61 42-5CJ10-0FA0		4.100	19.000	B	4AM61 42-5CJ10-0FA1		4.100	19.000
2	9.7	B	4AM64 42-5CJ10-0FA0		4.700	23.000	B	4AM64 42-5CJ10-0FA1		4.700	23.000
2.5	13.3	B	4AM65 42-5CJ10-0FA0		6.400	29.000	B	4AM65 42-5CJ10-0FA1		6.400	29.000
4	16	B	4AT30 32-5CJ10-0FA0		9.900	30.300	--	--		--	--
5	18.5	B	4AT36 12-5CJ10-0FA0		6.900	33.700	--	--		--	--
6.3	22.5	B	4AT36 32-5CJ10-0FA0		11.300	39.600	--	--		--	--
8	28.5	B	4AT39 12-5CJ10-0FA0		12.800	47.600	--	--		--	--
10	30	B	4AT39 32-5CJ10-0FA0		22.100	57.100	--	--		--	--
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>											
0.063	0.19	B	4AM32 42-5CJ10-0FA0		0.240	1.400	B	4AM32 42-5CJ10-0FA1		0.240	1.400
0.1	0.31	B	4AM34 42-5CJ10-0FA0		0.260	2.000	B	4AM34 42-5CJ10-0FA1		0.260	2.000
0.16	0.49	B	4AM38 42-5CJ10-0FA0		0.320	2.700	B	4AM38 42-5CJ10-0FA1		0.320	2.700
0.25	0.85	B	4AM40 42-5CJ10-0FA0		0.590	3.700	B	4AM40 42-5CJ10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5CJ10-0FB0		0.670	4.500	B	4AM43 42-5CJ10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-5CJ10-0FB0		1.100	5.400	B	4AM46 42-5CJ10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-5CJ10-0FB0		1.100	7.000	B	4AM48 42-5CJ10-0FB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-5CJ10-0FC0		0.240	2.700	B	4AM32 42-5CJ10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-5CJ10-0FC0		0.260	3.300	B	4AM34 42-5CJ10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-5CJ10-0FC0		0.320	5.600	B	4AM38 42-5CJ10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-5CJ10-0FC0		0.590	6.600	B	4AM40 42-5CJ10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-5CJ10-0FC0		0.670	7.400	B	4AM43 42-5CJ10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-5CJ10-0FC0		1.100	8.300	B	4AM46 42-5CJ10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-5CJ10-0FC0		1.100	9.900	B	4AM48 42-5CJ10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-5CJ10-0FC0		1.700	10.800	B	4AM52 42-5CJ10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-5CJ10-0FC0		1.900	13.900	B	4AM55 42-5CJ10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-5CJ10-0FC0		2.000	16.900	B	4AM57 42-5CJ10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-5CJ10-0FC0		4.100	26.700	B	4AM61 42-5CJ10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-5CJ10-0FC0		4.700	30.700	B	4AM64 42-5CJ10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-5CJ10-0FC0		6.400	36.700	B	4AM65 42-5CJ10-0FC1		6.400	36.700
3.6	16	B	4AT30 32-5CJ10-0FC0		9.900	38.000	--	--		--	--
4.5	18.5	B	4AT36 12-5CJ10-0FC0		6.900	41.400	--	--		--	--
5.6	22.5	B	4AT36 32-5CJ10-0FC0		11.300	47.300	--	--		--	--
7.1	28.5	B	4AT39 12-5CJ10-0FC0		12.800	61.800	--	--		--	--
9	30	B	4AT39 32-5CJ10-0FC0		22.100	71.000	--	--		--	--
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-5CJ10-0FD0		0.240	2.700	B	4AM32 42-5CJ10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-5CJ10-0FD0		0.260	3.300	B	4AM34 42-5CJ10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-5CJ10-0FD0		0.320	5.600	B	4AM38 42-5CJ10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-5CJ10-0FD0		0.590	6.600	B	4AM40 42-5CJ10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-5CJ10-0FD0		0.670	7.400	B	4AM43 42-5CJ10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-5CJ10-0FD0		1.100	8.300	B	4AM46 42-5CJ10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-5CJ10-0FD0		1.100	9.900	B	4AM48 42-5CJ10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-5CJ10-0FD0		1.700	10.800	B	4AM52 42-5CJ10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-5CJ10-0FD0		1.900	13.900	B	4AM55 42-5CJ10-0FD1		1.900	13.900
0.75	5	B	4AM57 42-5CJ10-0FD0		2.000	16.900	B	4AM57 42-5CJ10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-5CJ10-0FD0		4.100	26.700	B	4AM61 42-5CJ10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-5CJ10-0FD0		4.700	30.700	B	4AM64 42-5CJ10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-5CJ10-0FD0		6.400	36.700	B	4AM65 42-5CJ10-0FD1		6.400	36.700
3.15	16	B	4AT30 32-5CJ10-0FD0		9.900	38.000	--	--		--	--
4	18.5	B	4AT36 12-5CJ10-0FD0		6.900	41.400	--	--		--	--
5	22.5	B	4AT36 32-5CJ10-0FD0		11.300	47.300	--	--		--	--
6.3	28.5	B	4AT39 12-5CJ10-0FD0		12.800	61.800	--	--		--	--
8	30	B	4AT39 32-5CJ10-0FD0		22.100	71.000	--	--		--	--

1) For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

2) The delivery time class depends on the quantity, see page 10/4 "Options".

3) The 4AT types are only supplied with screw terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM, 4AT isolating, control and mains transformers

With one input voltage

Rated input voltage  $U_{1N}$  440 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  2 x 115 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{short.}^{1)}$	DT <sup>2)</sup>	Screw terminals <sup>3)/</sup> flat connectors <sup>3)</sup>		Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA				kg	kg
<b>Degree of protection IP00, standard version<sup>4)</sup></b>						
0.063	0.19	B	4AM32 42-5CD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-5CD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-5CD40-0FA0		0.320	2.700
0.25	0.85	B	4AM40 42-5CD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-5CD40-0FA0		0.670	4.500
0.4	1.44	B	4AM46 42-5CD40-0FA0		1.100	5.400
0.5	2	B	4AM48 42-5CD40-0FA0		1.100	7.000
0.63	2.35	B	4AM52 42-5CD40-0FA0		1.700	7.900
0.8	3.4	B	4AM55 42-5CD40-0FA0		1.900	11.000
1	5	B	4AM57 42-5CD40-0FA0		2.000	14.000
1.6	7.3	B	4AM61 42-5CD40-0FA0		4.100	19.000
2	9.7	B	4AM64 42-5CD40-0FA0		4.700	23.000
2.5	13.3	B	4AM65 42-5CD40-0FA0		6.400	29.000
4	16	B	4AT30 32-5CD40-0FA0		9.900	30.300
5	18.5	B	4AT36 12-5CD40-0FA0		6.900	33.700
6.3	22.5	B	4AT36 32-5CD40-0FA0		11.300	39.600
8	28.5	B	4AT39 12-5CD40-0FA0		12.800	47.900
10	30	B	4AT39 32-5CD40-0FA0		22.100	57.100
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>						
0.063	0.19	B	4AM32 42-5CD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-5CD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-5CD40-0FA0		0.320	2.700
0.25	0.85	B	4AM40 42-5CD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-5CD40-0FB0		0.670	4.500
0.4	1.44	B	4AM46 42-5CD40-0FB0		1.100	5.400
0.5	2	B	4AM48 42-5CD40-0FB0		1.100	7.000
<b>Degree of protection IP23</b>						
0.057	0.19	B	4AM32 42-5CD40-0FC0		0.240	2.700
0.09	0.31	B	4AM34 42-5CD40-0FC0		0.260	3.300
0.145	0.49	B	4AM38 42-5CD40-0FC0		0.320	5.600
0.225	0.85	B	4AM40 42-5CD40-0FC0		0.590	6.600
0.268	1.12	B	4AM43 42-5CD40-0FC0		0.670	7.400
0.34	1.44	B	4AM46 42-5CD40-0FC0		1.100	8.300
0.425	2	B	4AM48 42-5CD40-0FC0		1.100	9.900
0.535	2.35	B	4AM52 42-5CD40-0FC0		1.700	10.800
0.68	3.4	B	4AM55 42-5CD40-0FC0		1.900	13.900
0.85	5	B	4AM57 42-5CD40-0FC0		2.000	16.900
1.36	7.3	B	4AM61 42-5CD40-0FC0		4.100	26.700
1.7	9.7	B	4AM64 42-5CD40-0FC0		4.700	30.700
2.13	13.3	B	4AM65 42-5CD40-0FC0		6.400	36.700
3.6	16	B	4AT30 32-5CD40-0FC0		9.900	38.000
4.5	18.5	B	4AT36 12-5CD40-0FC0		6.900	41.400
5.6	22.5	B	4AT36 32-5CD40-0FC0		11.300	47.300
7.1	28.5	B	4AT39 12-5CD40-0FC0		12.800	61.800
9	30	B	4AT39 32-5CD40-0FC0		22.100	71.000
<b>Degree of protection IP54</b>						
0.05	0.19	B	4AM32 42-5CD40-0FD0		0.240	2.700
0.08	0.31	B	4AM34 42-5CD40-0FD0		0.260	3.300
0.128	0.49	B	4AM38 42-5CD40-0FD0		0.320	5.600
0.2	0.85	B	4AM40 42-5CD40-0FD0		0.590	6.600
0.236	1.12	B	4AM43 42-5CD40-0FD0		0.670	7.400
0.3	1.44	B	4AM46 42-5CD40-0FD0		1.100	8.300
0.375	2	B	4AM48 42-5CD40-0FD0		1.100	9.900
0.475	2.35	B	4AM52 42-5CD40-0FD0		1.700	10.800
0.6	3.4	B	4AM55 42-5CD40-0FD0		1.900	13.900
0.75	5	B	4AM57 42-5CD40-0FD0		2.000	16.900
1.2	7.3	B	4AM61 42-5CD40-0FD0		4.100	26.700
1.5	9.7	B	4AM64 42-5CD40-0FD0		4.700	30.700
1.875	13.3	B	4AM65 42-5CD40-0FD0		6.400	36.700
3.15	16	B	4AT30 32-5CD40-0FD0		9.900	38.000
4	18.5	B	4AT36 12-5CD40-0FD0		6.900	41.400
5	22.5	B	4AT36 32-5CD40-0FD0		11.300	47.300
6.3	28.5	B	4AT39 12-5CD40-0FD0		12.800	61.800
8	30	B	4AT39 32-5CD40-0FD0		22.100	71.000

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> The 4AT types are only supplied with screw terminals.

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.



# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

4AM, 4AT isolating,  
control and mains transformers

**With one input voltage**

Rated input voltage  $U_{1N}$  440 V ± 5 %,  
rated output voltage  $U_{2N}$  230 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ <sup>1)</sup> kVA	DT <sup>2)</sup>	Screw terminals <sup>3)</sup> / flat connectors <sup>3)</sup>		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version<sup>4)</sup></b>											
0.063	0.19		▶	4AM32 42-5CT10-0FA0	0.240	1.400	B	4AM32 42-5CT10-0FA1		0.240	1.400
0.1	0.31		▶	4AM34 42-5CT10-0FA0	0.260	2.000	B	4AM34 42-5CT10-0FA1		0.260	2.000
0.16	0.49		▶	4AM38 42-5CT10-0FA0	0.320	2.700	B	4AM38 42-5CT10-0FA1		0.320	2.700
0.25	0.85		▶	4AM40 42-5CT10-0FA0	0.590	3.700	B	4AM40 42-5CT10-0FA1		0.590	3.700
0.315	1.12		▶	4AM43 42-5CT10-0FA0	0.670	4.500	B	4AM43 42-5CT10-0FA1		0.670	4.500
0.4	1.44		▶	4AM46 42-5CT10-0FA0	1.100	5.400	B	4AM46 42-5CT10-0FA1		1.100	5.400
0.5	2		▶	4AM48 42-5CT10-0FA0	1.100	7.000	B	4AM48 42-5CT10-0FA1		1.100	7.000
0.63	2.35		▶	4AM52 42-5CT10-0FA0	1.700	7.900	B	4AM52 42-5CT10-0FA1		1.700	7.900
0.8	3.4		▶	4AM55 42-5CT10-0FA0	1.900	11.000	B	4AM55 42-5CT10-0FA1		1.900	11.000
1	5		▶	4AM57 42-5CT10-0FA0	2.000	14.000	B	4AM57 42-5CT10-0FA1		2.000	14.000
1.6	7.3		▶	4AM61 42-5CT10-0FA0	4.100	19.000	B	4AM61 42-5CT10-0FA1		4.100	19.000
2	9.7		▶	4AM64 42-5CT10-0FA0	4.700	23.000	B	4AM64 42-5CT10-0FA1		4.700	23.000
2.5	13.3	B	▶	4AM65 42-5CT10-0FA0	6.400	29.000	B	4AM65 42-5CT10-0FA1		6.400	29.000
4	16	B		4AT30 32-5CT10-0FA0	9.900	30.300		--			
5	18.5	B		4AT36 12-5CT10-0FA0	6.900	33.700		--			
6.3	22.5	B		4AT36 32-5CT10-0FA0	11.300	39.600		--			
8	28.5	B		4AT39 12-5CT10-0FA0	12.800	47.900		--			
10	30	B		4AT39 32-5CT10-0FA0	22.100	57.100		--			
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>											
0.063	0.19		▶	4AM32 42-5CT10-0FA0	0.240	1.400	B	4AM32 42-5CT10-0FA1		0.240	1.400
0.1	0.31		▶	4AM34 42-5CT10-0FA0	0.260	2.000	B	4AM34 42-5CT10-0FA1		0.260	2.000
0.16	0.49		▶	4AM38 42-5CT10-0FA0	0.320	2.700	B	4AM38 42-5CT10-0FA1		0.320	2.700
0.25	0.85		▶	4AM40 42-5CT10-0FA0	0.590	3.700	B	4AM40 42-5CT10-0FA1		0.590	3.700
0.315	1.12	B	▶	4AM43 42-5CT10-0FB0	0.670	4.500	B	4AM43 42-5CT10-0FB1		0.670	4.500
0.4	1.44	B	▶	4AM46 42-5CT10-0FB0	1.100	5.400	B	4AM46 42-5CT10-0FB1		1.100	5.400
0.5	2	B	▶	4AM48 42-5CT10-0FB0	1.100	7.000	B	4AM48 42-5CT10-0FB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B		4AM32 42-5CT10-0FC0	0.240	2.700	B	4AM32 42-5CT10-0FC1		0.240	2.700
0.09	0.31	B		4AM34 42-5CT10-0FC0	0.260	3.300	B	4AM34 42-5CT10-0FC1		0.260	3.300
0.145	0.49	B		4AM38 42-5CT10-0FC0	0.320	5.600	B	4AM38 42-5CT10-0FC1		0.320	5.600
0.225	0.85	B		4AM40 42-5CT10-0FC0	0.590	6.600	B	4AM40 42-5CT10-0FC1		0.590	6.600
0.268	1.12	B		4AM43 42-5CT10-0FC0	0.670	7.400	B	4AM43 42-5CT10-0FC1		0.670	7.400
0.34	1.44	B		4AM46 42-5CT10-0FC0	1.100	8.300	B	4AM46 42-5CT10-0FC1		1.100	8.300
0.425	2	B		4AM48 42-5CT10-0FC0	1.100	9.900	B	4AM48 42-5CT10-0FC1		1.100	9.900
0.535	2.35	B		4AM52 42-5CT10-0FC0	1.700	10.800	B	4AM52 42-5CT10-0FC1		1.700	10.800
0.68	3.4	B		4AM55 42-5CT10-0FC0	1.900	13.900	B	4AM55 42-5CT10-0FC1		1.900	13.900
0.85	5	B		4AM57 42-5CT10-0FC0	2.000	16.900	B	4AM57 42-5CT10-0FC1		2.000	16.900
1.36	7.3	B		4AM61 42-5CT10-0FC0	4.100	26.700	B	4AM61 42-5CT10-0FC1		4.100	26.700
1.7	9.7	B		4AM64 42-5CT10-0FC0	4.700	30.700	B	4AM64 42-5CT10-0FC1		4.700	30.700
2.13	13.3	B		4AM65 42-5CT10-0FC0	6.400	36.700	B	4AM65 42-5CT10-0FC1		6.400	36.700
3.6	16	B		4AT30 32-5CT10-0FC0	9.900	38.000		--			
4.5	18.5	B		4AT36 12-5CT10-0FC0	6.900	41.400		--			
5.6	22.5	B		4AT36 32-5CT10-0FC0	11.300	47.300		--			
7.1	28.5	B		4AT39 12-5CT10-0FC0	12.800	61.800		--			
9	30	B		4AT39 32-5CT10-0FC0	22.100	71.000		--			
<b>Degree of protection IP54</b>											
0.05	0.19	B		4AM32 42-5CT10-0FD0	0.240	2.700	B	4AM32 42-5CT10-0FD1		0.240	2.700
0.08	0.31	B		4AM34 42-5CT10-0FD0	0.260	3.300	B	4AM34 42-5CT10-0FD1		0.260	3.300
0.128	0.49	B		4AM38 42-5CT10-0FD0	0.320	5.600	B	4AM38 42-5CT10-0FD1		0.320	5.600
0.2	0.85	B		4AM40 42-5CT10-0FD0	0.590	6.600	B	4AM40 42-5CT10-0FD1		0.590	6.600
0.236	1.12	B		4AM43 42-5CT10-0FD0	0.670	7.400	B	4AM43 42-5CT10-0FD1		0.670	7.400
0.3	1.44	B		4AM46 42-5CT10-0FD0	1.100	8.300	B	4AM46 42-5CT10-0FD1		1.100	8.300
0.375	2	B		4AM48 42-5CT10-0FD0	1.100	9.900	B	4AM48 42-5CT10-0FD1		1.100	9.900
0.475	2.35	B		4AM52 42-5CT10-0FD0	1.700	10.800	B	4AM52 42-5CT10-0FD1		1.700	10.800
0.6	3.4	B		4AM55 42-5CT10-0FD0	1.900	13.900	B	4AM55 42-5CT10-0FD1		1.900	13.900
0.75	5	B		4AM57 42-5CT10-0FD0	2.000	16.900	B	4AM57 42-5CT10-0FD1		2.000	16.900
1.2	7.3	B		4AM61 42-5CT10-0FD0	4.100	26.700	B	4AM61 42-5CT10-0FD1		4.100	26.700
1.5	9.7	B		4AM64 42-5CT10-0FD0	4.700	30.700	B	4AM64 42-5CT10-0FD1		4.700	30.700
1.875	13.3	B		4AM65 42-5CT10-0FD0	6.400	36.700	B	4AM65 42-5CT10-0FD1		6.400	36.700
3.15	16	B		4AT30 32-5CT10-0FD0	9.900	38.000		--			
4	18.5	B		4AT36 12-5CT10-0FD0	6.900	41.400		--			
5	22.5	B		4AT36 32-5CT10-0FD0	11.300	47.300		--			
6.3	28.5	B		4AT39 12-5CT10-0FD0	12.800	61.800		--			
8	30	B		4AT39 32-5CT10-0FD0	22.100	71.000		--			

1) For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

2) The delivery time class depends on the quantity, see page 10/4 \*Options\*.

3) The 4AT types are only supplied with screw terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM, 4AT isolating, control and mains transformers

With one input voltage

Rated input voltage  $U_{1N} 500 V \pm 5 \%$ ,  
rated output voltage  $U_{2N} 110 V$



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ KVA	Short-time rating $P_{short.}^1)$ KVA	DT <sup>2)</sup>	Screw terminals <sup>3)/ flat connectors<sup>3)</sup></sup>	Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals	Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.				Price per PU		
<b>Degree of protection IP00, standard version<sup>4)</sup></b>									
0.063	0.19	B	4AM32 42-5FJ10-0FA0	0.240	1.400	B	4AM32 42-5FJ10-0FA1	0.300	1.400
0.1	0.31	B	4AM34 42-5FJ10-0FA0	0.260	2.000	B	4AM34 42-5FJ10-0FA1	0.260	2.000
0.16	0.49	B	4AM38 42-5FJ10-0FA0	0.340	2.700	B	4AM38 42-5FJ10-0FA1	0.320	2.700
0.25	0.85	B	4AM40 42-5FJ10-0FA0	0.590	3.700	B	4AM40 42-5FJ10-0FA1	0.590	3.700
0.315	1.12	B	4AM43 42-5FJ10-0FA0	0.670	4.500	B	4AM43 42-5FJ10-0FA1	0.670	4.500
0.4	1.44	B	4AM46 42-5FJ10-0FA0	1.100	5.400	B	4AM46 42-5FJ10-0FA1	1.100	5.400
0.5	2	B	4AM48 42-5FJ10-0FA0	1.100	7.000	B	4AM48 42-5FJ10-0FA1	1.100	7.000
0.63	2.35	B	4AM52 42-5FJ10-0FA0	1.700	7.900	B	4AM52 42-5FJ10-0FA1	1.700	7.900
0.8	3.4	B	4AM55 42-5FJ10-0FA0	1.900	11.000	B	4AM55 42-5FJ10-0FA1	1.900	11.000
1	5	B	4AM57 42-5FJ10-0FA0	2.000	14.000	B	4AM57 42-5FJ10-0FA1	2.000	14.000
1.6	7.3	B	4AM61 42-5FJ10-0FA0	4.100	19.000	B	4AM61 42-5FJ10-0FA1	4.100	19.000
2	9.7	B	4AM64 42-5FJ10-0FA0	4.700	23.000	B	4AM64 42-5FJ10-0FA1	4.700	23.000
2.5	13.3	B	4AM65 42-5FJ10-0FA0	6.400	29.000	B	4AM65 42-5FJ10-0FA1	6.400	29.000
4	16	B	4AT30 32-5FJ10-0FA0	9.900	30.300	--	--	--	--
5	18.5	B	4AT36 12-5FJ10-0FA0	6.900	33.700	--	--	--	--
6.3	22.5	B	4AT36 32-5FJ10-0FA0	11.300	39.600	--	--	--	--
8	28.5	B	4AT39 12-5FJ10-0FA0	12.800	47.900	--	--	--	--
10	30	B	4AT39 32-5FJ10-0FA0	22.100	57.100	--	--	--	--
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>									
0.063	0.19	B	4AM32 42-5FJ10-0FA0	0.240	1.400	B	4AM32 42-5FJ10-0FA1	0.300	1.400
0.1	0.31	B	4AM34 42-5FJ10-0FA0	0.260	2.000	B	4AM34 42-5FJ10-0FA1	0.260	2.000
0.16	0.49	B	4AM38 42-5FJ10-0FA0	0.340	2.700	B	4AM38 42-5FJ10-0FA1	0.320	2.700
0.25	0.85	B	4AM40 42-5FJ10-0FA0	0.590	3.700	B	4AM40 42-5FJ10-0FA1	0.590	3.700
0.315	1.12	B	4AM43 42-5FJ10-0FB0	0.670	4.500	B	4AM43 42-5FJ10-0FB1	0.670	4.500
0.4	1.44	B	4AM46 42-5FJ10-0FB0	1.100	5.400	B	4AM46 42-5FJ10-0FB1	1.100	5.400
0.5	2	B	4AM48 42-5FJ10-0FB0	1.100	7.000	B	4AM48 42-5FJ10-0FB1	1.100	7.000
<b>Degree of protection IP23</b>									
0.057	0.19	B	4AM32 42-5FJ10-0FC0	0.240	2.700	B	4AM32 42-5FJ10-0FC1	0.240	2.700
0.09	0.31	B	4AM34 42-5FJ10-0FC0	0.260	3.300	B	4AM34 42-5FJ10-0FC1	0.260	3.300
0.145	0.49	B	4AM38 42-5FJ10-0FC0	0.320	5.600	B	4AM38 42-5FJ10-0FC1	0.320	5.600
0.225	0.85	B	4AM40 42-5FJ10-0FC0	0.590	6.600	B	4AM40 42-5FJ10-0FC1	0.590	6.600
0.268	1.12	B	4AM43 42-5FJ10-0FC0	0.670	7.400	B	4AM43 42-5FJ10-0FC1	0.670	7.400
0.34	1.44	B	4AM46 42-5FJ10-0FC0	1.100	8.300	B	4AM46 42-5FJ10-0FC1	1.100	8.300
0.425	2	B	4AM48 42-5FJ10-0FC0	1.100	9.900	B	4AM48 42-5FJ10-0FC1	1.100	9.900
0.535	2.35	B	4AM52 42-5FJ10-0FC0	1.700	10.800	B	4AM52 42-5FJ10-0FC1	1.700	10.800
0.68	3.4	B	4AM55 42-5FJ10-0FC0	1.900	13.900	B	4AM55 42-5FJ10-0FC1	1.900	13.900
0.85	5	B	4AM57 42-5FJ10-0FC0	2.000	16.900	B	4AM57 42-5FJ10-0FC1	2.000	16.900
1.36	7.3	B	4AM61 42-5FJ10-0FC0	4.100	26.700	B	4AM61 42-5FJ10-0FC1	4.100	26.700
1.7	9.7	B	4AM64 42-5FJ10-0FC0	4.700	30.700	B	4AM64 42-5FJ10-0FC1	4.700	30.700
2.13	13.3	B	4AM65 42-5FJ10-0FC0	6.400	36.700	B	4AM65 42-5FJ10-0FC1	6.400	36.700
3.6	16	B	4AT30 32-5FJ10-0FC0	9.900	38.000	--	--	--	--
4.5	18.5	B	4AT36 12-5FJ10-0FC0	6.900	41.400	--	--	--	--
5.6	22.5	B	4AT36 32-5FJ10-0FC0	11.300	47.300	--	--	--	--
7.1	28.5	B	4AT39 12-5FJ10-0FC0	12.800	61.800	--	--	--	--
9	30	B	4AT39 32-5FJ10-0FC0	22.100	71.000	--	--	--	--
<b>Degree of protection IP54</b>									
0.05	0.19	B	4AM32 42-5FJ10-0FD0	0.240	2.700	B	4AM32 42-5FJ10-0FD1	0.240	2.700
0.08	0.31	B	4AM34 42-5FJ10-0FD0	0.260	3.300	B	4AM34 42-5FJ10-0FD1	0.260	3.300
0.128	0.49	B	4AM38 42-5FJ10-0FD0	0.320	5.600	B	4AM38 42-5FJ10-0FD1	0.320	5.600
0.2	0.85	B	4AM40 42-5FJ10-0FD0	0.590	6.600	B	4AM40 42-5FJ10-0FD1	0.590	6.600
0.236	1.12	B	4AM43 42-5FJ10-0FD0	0.670	7.400	B	4AM43 42-5FJ10-0FD1	0.670	7.400
0.3	1.44	B	4AM46 42-5FJ10-0FD0	1.100	8.300	B	4AM46 42-5FJ10-0FD1	1.100	8.300
0.375	2	B	4AM48 42-5FJ10-0FD0	1.100	9.900	B	4AM48 42-5FJ10-0FD1	1.100	9.900
0.475	2.35	B	4AM52 42-5FJ10-0FD0	1.700	10.800	B	4AM52 42-5FJ10-0FD1	1.700	10.800
0.6	3.4	B	4AM55 42-5FJ10-0FD0	1.900	13.900	B	4AM55 42-5FJ10-0FD1	1.900	13.900
0.75	5	B	4AM57 42-5FJ10-0FD0	2.000	16.900	B	4AM57 42-5FJ10-0FD1	2.000	16.900
1.2	7.3	B	4AM61 42-5FJ10-0FD0	4.100	26.700	B	4AM61 42-5FJ10-0FD1	4.100	26.700
1.5	9.7	B	4AM64 42-5FJ10-0FD0	4.700	30.700	B	4AM64 42-5FJ10-0FD1	4.700	30.700
1.875	13.3	B	4AM65 42-5FJ10-0FD0	6.400	36.700	B	4AM65 42-5FJ10-0FD1	6.400	36.700
3.15	16	B	4AT30 32-5FJ10-0FD0	9.900	38.000	--	--	--	--
4	18.5	B	4AT36 12-5FJ10-0FD0	6.900	41.400	--	--	--	--
5	22.5	B	4AT36 32-5FJ10-0FD0	11.300	47.300	--	--	--	--
6.3	28.5	B	4AT39 12-5FJ10-0FD0	12.800	61.800	--	--	--	--
8	30	B	4AT39 32-5FJ10-0FD0	22.100	71.000	--	--	--	--

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> The 4AT types are only supplied with screw terminals.

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

4AM, 4AT isolating,  
control and mains transformers

With one input voltage

Rated input voltage  $U_{1N}$  500 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  2 x 115 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{short.}$ <sup>1)</sup>	DT <sup>2)</sup>	Screw terminals <sup>3)/</sup> flat connectors <sup>3)</sup>		Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA				kg	kg
<b>Degree of protection IP00, standard version<sup>4)</sup></b>						
0.063	0.19	B	4AM32 42-5FD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-5FD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-5FD40-0FA0		0.320	2.700
0.25	0.85	B	4AM40 42-5FD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-5FD40-0FA0		0.670	4.500
0.4	1.44	B	4AM46 42-5FD40-0FA0		1.100	5.400
0.5	2	B	4AM48 42-5FD40-0FA0		1.100	7.000
0.63	2.35	B	4AM52 42-5FD40-0FA0		1.700	7.900
0.8	3.4	B	4AM55 42-5FD40-0FA0		1.900	11.000
1	5	B	4AM57 42-5FD40-0FA0		2.000	14.000
1.6	7.3	B	4AM61 42-5FD40-0FA0		4.100	19.000
2	9.7	B	4AM64 42-5FD40-0FA0		4.700	23.000
2.5	13.3	B	4AM65 42-5FD40-0FA0		6.400	29.000
4	16	B	4AT30 32-5FD40-0FA0		9.900	30.300
5	18.5	B	4AT36 12-5FD40-0FA0		6.900	33.700
6.3	22.5	B	4AT36 32-5FD40-0FA0		11.300	39.600
8	28.5	B	4AT39 12-5FD40-0FA0		12.800	47.900
10	30	B	4AT39 32-5FD40-0FA0		22.100	57.100
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>						
0.063	0.19	B	4AM32 42-5FD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-5FD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-5FD40-0FA0		0.320	2.700
0.25	0.85	B	4AM40 42-5FD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-5FD40-0FB0		0.670	4.500
0.4	1.44	B	4AM46 42-5FD40-0FB0		1.100	5.400
0.5	2	B	4AM48 42-5FD40-0FB0		1.100	7.000
<b>Degree of protection IP23</b>						
0.057	0.19	B	4AM32 42-5FD40-0FC0		0.240	2.700
0.09	0.31	B	4AM34 42-5FD40-0FC0		0.260	3.300
0.145	0.49	B	4AM38 42-5FD40-0FC0		0.320	5.600
0.225	0.85	B	4AM40 42-5FD40-0FC0		0.590	6.600
0.268	1.12	B	4AM43 42-5FD40-0FC0		0.670	7.400
0.34	1.44	B	4AM46 42-5FD40-0FC0		1.100	8.300
0.425	2	B	4AM48 42-5FD40-0FC0		1.100	9.900
0.535	2.35	B	4AM52 42-5FD40-0FC0		1.700	10.800
0.68	3.4	B	4AM55 42-5FD40-0FC0		1.900	13.900
0.85	5	B	4AM57 42-5FD40-0FC0		2.000	16.900
1.36	7.3	B	4AM61 42-5FD40-0FC0		4.100	26.700
1.7	9.7	B	4AM64 42-5FD40-0FC0		4.700	30.700
2.13	13.3	B	4AM65 42-5FD40-0FC0		6.400	36.700
3.6	16	B	4AT30 32-5FD40-0FC0		9.900	38.000
4.5	18.5	B	4AT36 12-5FD40-0FC0		6.900	41.400
5.6	22.5	B	4AT36 32-5FD40-0FC0		11.300	47.300
7.1	28.5	B	4AT39 12-5FD40-0FC0		12.800	61.800
9	30	B	4AT39 32-5FD40-0FC0		22.100	71.000
<b>Degree of protection IP54</b>						
0.05	0.19	B	4AM32 42-5FD40-0FD0		0.240	2.700
0.08	0.31	B	4AM34 42-5FD40-0FD0		0.260	3.300
0.128	0.49	B	4AM38 42-5FD40-0FD0		0.320	5.600
0.2	0.85	B	4AM40 42-5FD40-0FD0		0.590	6.600
0.236	1.12	B	4AM43 42-5FD40-0FD0		0.670	7.400
0.3	1.44	B	4AM46 42-5FD40-0FD0		1.100	8.300
0.375	2	B	4AM48 42-5FD40-0FD0		1.100	9.900
0.475	2.35	B	4AM52 42-5FD40-0FD0		1.700	10.800
0.6	3.4	B	4AM55 42-5FD40-0FD0		1.900	13.900
0.75	5	B	4AM57 42-5FD40-0FD0		2.000	16.900
1.2	7.3	B	4AM61 42-5FD40-0FD0		4.100	26.700
1.5	9.7	B	4AM64 42-5FD40-0FD0		4.700	30.700
1.875	13.3	B	4AM65 42-5FD40-0FD0		6.400	36.700
3.15	16	B	4AT30 32-5FD40-0FD0		9.900	38.000
4	18.5	B	4AT36 12-5FD40-0FD0		6.900	41.400
5	22.5	B	4AT36 32-5FD40-0FD0		11.300	47.300
6.3	28.5	B	4AT39 12-5FD40-0FD0		12.800	61.800
8	30	B	4AT39 32-5FD40-0FD0		22.100	71.000

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> The 4AT types are only supplied with screw terminals.

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

4AM, 4AT isolating,  
control and mains transformers

With one input voltage

Rated input voltage  $U_{1N}$  500 V  $\pm$  5 %,  
rated output voltage  $U_{2N}$  230 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ kVA	DT <sup>2)</sup>	Screw terminals <sup>3)</sup> / flat connectors <sup>3)</sup>	Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals	Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.				Price per PU		
<b>Degree of protection IP00, standard version<sup>4)</sup></b>									
0.063	0.19	▶	4AM32 42-5FT10-0FA0	0.240	1.400	B	4AM32 42-5FT10-0FA1	0.240	1.400
0.1	0.31	▶	4AM34 42-5FT10-0FA0	0.260	2.000	B	4AM34 42-5FT10-0FA1	0.260	2.000
0.16	0.49	▶	4AM38 42-5FT10-0FA0	0.320	2.700	B	4AM38 42-5FT10-0FA1	0.320	2.700
0.25	0.85	▶	4AM40 42-5FT10-0FA0	0.590	3.700	B	4AM40 42-5FT10-0FA1	0.590	3.700
0.315	1.12	▶	4AM43 42-5FT10-0FA0	0.670	4.500	B	4AM43 42-5FT10-0FA1	0.670	4.500
0.4	1.44	▶	4AM46 42-5FT10-0FA0	1.100	5.400	B	4AM46 42-5FT10-0FA1	1.100	5.400
0.5	2	▶	4AM48 42-5FT10-0FA0	1.100	7.000	B	4AM48 42-5FT10-0FA1	1.100	7.000
0.63	2.35	▶	4AM52 42-5FT10-0FA0	1.700	7.900	B	4AM52 42-5FT10-0FA1	1.700	7.900
0.8	3.4	▶	4AM55 42-5FT10-0FA0	1.900	11.000	B	4AM55 42-5FT10-0FA1	1.800	11.000
1	5	▶	4AM57 42-5FT10-0FA0	2.000	14.000	B	4AM57 42-5FT10-0FA1	2.000	14.000
1.6	7.3	▶	4AM61 42-5FT10-0FA0	4.100	19.000	B	4AM61 42-5FT10-0FA1	4.100	19.000
2	9.7	▶	4AM64 42-5FT10-0FA0	4.700	23.000	B	4AM64 42-5FT10-0FA1	4.700	23.000
2.5	13.3	▶	4AM65 42-5FT10-0FA0	6.400	29.000	B	4AM65 42-5FT10-0FA1	6.400	29.000
4	16	▶	4AT30 32-5FT10-0FA0	9.900	30.300	B	--	--	--
5	18.5	B	4AT36 12-5FT10-0FA0	6.900	33.700	B	--	--	--
6.3	22.5	B	4AT36 32-5FT10-0FA0	11.300	39.600	B	--	--	--
8	28.5	B	4AT39 12-5FT10-0FA0	12.800	47.900	B	--	--	--
10	30	B	4AT39 32-5FT10-0FA0	22.100	57.100	B	--	--	--
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>									
0.063	0.19	▶	4AM32 42-5FT10-0FA0	0.240	1.400	B	4AM32 42-5FT10-0FA1	0.240	1.400
0.1	0.31	▶	4AM34 42-5FT10-0FA0	0.260	2.000	B	4AM34 42-5FT10-0FA1	0.260	2.000
0.16	0.49	▶	4AM38 42-5FT10-0FA0	0.320	2.700	B	4AM38 42-5FT10-0FA1	0.320	2.700
0.25	0.85	▶	4AM40 42-5FT10-0FA0	0.590	3.700	B	4AM40 42-5FT10-0FA1	0.590	3.700
0.315	1.12	B	4AM43 42-5FT10-0FB0	0.670	4.500	B	4AM43 42-5FT10-0FB1	0.670	4.500
0.4	1.44	B	4AM46 42-5FT10-0FB0	1.100	5.400	B	4AM46 42-5FT10-0FB1	1.100	5.400
0.5	2	B	4AM48 42-5FT10-0FB0	1.100	7.000	B	4AM48 42-5FT10-0FB1	1.040	7.000
<b>Degree of protection IP23</b>									
0.057	0.19	B	4AM32 42-5FT10-0FC0	0.240	2.700	B	4AM32 42-5FT10-0FC1	0.240	2.700
0.09	0.31	B	4AM34 42-5FT10-0FC0	0.260	3.300	B	4AM34 42-5FT10-0FC1	0.260	3.300
0.145	0.49	B	4AM38 42-5FT10-0FC0	0.320	5.600	B	4AM38 42-5FT10-0FC1	0.320	5.600
0.225	0.85	B	4AM40 42-5FT10-0FC0	0.590	6.600	B	4AM40 42-5FT10-0FC1	0.590	6.600
0.268	1.12	B	4AM43 42-5FT10-0FC0	0.670	7.400	B	4AM43 42-5FT10-0FC1	0.670	7.400
0.34	1.44	B	4AM46 42-5FT10-0FC0	1.100	8.300	B	4AM46 42-5FT10-0FC1	1.100	8.300
0.425	2	B	4AM48 42-5FT10-0FC0	1.100	9.900	B	4AM48 42-5FT10-0FC1	1.100	9.900
0.535	2.35	B	4AM52 42-5FT10-0FC0	1.700	10.800	B	4AM52 42-5FT10-0FC1	1.700	10.800
0.68	3.4	B	4AM55 42-5FT10-0FC0	1.900	13.900	B	4AM55 42-5FT10-0FC1	1.900	13.900
0.85	5	B	4AM57 42-5FT10-0FC0	2.000	16.900	B	4AM57 42-5FT10-0FC1	2.000	16.900
1.36	7.3	B	4AM61 42-5FT10-0FC0	4.100	26.700	B	4AM61 42-5FT10-0FC1	4.100	26.700
1.7	9.7	B	4AM64 42-5FT10-0FC0	4.700	30.700	B	4AM64 42-5FT10-0FC1	4.700	30.700
2.13	13.3	B	4AM65 42-5FT10-0FC0	6.400	36.700	B	4AM65 42-5FT10-0FC1	6.400	36.700
3.6	16	B	4AT30 32-5FT10-0FC0	9.900	38.000	B	--	--	--
4.5	18.5	B	4AT36 12-5FT10-0FC0	6.900	41.400	B	--	--	--
5.6	22.5	B	4AT36 32-5FT10-0FC0	11.300	47.300	B	--	--	--
7.1	28.5	B	4AT39 12-5FT10-0FC0	12.800	61.800	B	--	--	--
9	30	B	4AT39 32-5FT10-0FC0	22.100	71.000	B	--	--	--
<b>Degree of protection IP54</b>									
0.05	0.19	B	4AM32 42-5FT10-0FD0	0.240	2.700	B	4AM32 42-5FT10-0FD1	0.240	2.700
0.08	0.31	B	4AM34 42-5FT10-0FD0	0.260	3.300	B	4AM34 42-5FT10-0FD1	0.260	3.300
0.128	0.49	B	4AM38 42-5FT10-0FD0	0.320	5.600	B	4AM38 42-5FT10-0FD1	0.320	5.600
0.2	0.85	B	4AM40 42-5FT10-0FD0	0.590	6.600	B	4AM40 42-5FT10-0FD1	0.590	6.600
0.236	1.12	B	4AM43 42-5FT10-0FD0	0.670	7.400	B	4AM43 42-5FT10-0FD1	0.670	7.400
0.3	1.44	B	4AM46 42-5FT10-0FD0	1.100	8.300	B	4AM46 42-5FT10-0FD1	1.100	8.300
0.375	2	B	4AM48 42-5FT10-0FD0	1.100	9.900	B	4AM48 42-5FT10-0FD1	1.100	9.900
0.475	2.35	B	4AM52 42-5FT10-0FD0	1.700	10.800	B	4AM52 42-5FT10-0FD1	1.700	10.800
0.6	3.4	B	4AM55 42-5FT10-0FD0	1.900	13.900	B	4AM55 42-5FT10-0FD1	1.900	13.900
0.75	5	B	4AM57 42-5FT10-0FD0	2.000	16.900	B	4AM57 42-5FT10-0FD1	2.000	16.900
1.2	7.3	B	4AM61 42-5FT10-0FD0	4.100	26.700	B	4AM61 42-5FT10-0FD1	4.100	26.700
1.5	9.7	B	4AM64 42-5FT10-0FD0	4.700	30.700	B	4AM64 42-5FT10-0FD1	4.700	30.700
1.875	13.3	B	4AM65 42-5FT10-0FD0	6.400	36.700	B	4AM65 42-5FT10-0FD1	6.400	36.700
3.15	16	B	4AT30 32-5FT10-0FD0	9.900	38.000	B	--	--	--
4	18.5	B	4AT36 12-5FT10-0FD0	6.900	41.400	B	--	--	--
5	22.5	B	4AT36 32-5FT10-0FD0	11.300	47.300	B	--	--	--
6.3	28.5	B	4AT39 12-5FT10-0FD0	12.800	61.800	B	--	--	--
8	30	B	4AT39 32-5FT10-0FD0	22.100	71.000	B	--	--	--

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> The 4AT types are only supplied with screw terminals.

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

4AM, 4AT isolating,  
control and mains transformers

With one input voltage

Rated input voltage  $U_{1N}$  660 V  $\pm 5\%$  <sup>1)</sup>,  
rated output voltage  $U_{2N}$  230 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ <sup>2)</sup> kVA	DT <sup>3)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>3)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version<sup>4)</sup></b>											
0.063	0.19	B	4AM32 42-5LT10-0FA0		0.240	1.400	B	4AM32 42-5LT10-0FA1		0.240	1.400
0.1	0.31	B	4AM34 42-5LT10-0FA0		0.300	2.000	B	4AM34 42-5LT10-0FA1		0.260	2.000
0.16	0.49	B	4AM38 42-5LT10-0FA0		0.320	2.700	B	4AM38 42-5LT10-0FA1		0.320	2.700
0.25	0.85	B	4AM40 42-5LT10-0FA0		0.680	3.700	B	4AM40 42-5LT10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5LT10-0FA0		0.670	4.500	B	4AM43 42-5LT10-0FA1		0.670	4.500
0.4	1.44	B	4AM46 42-5LT10-0FA0		1.100	5.400	B	4AM46 42-5LT10-0FA1		1.100	5.400
0.5	2	B	4AM48 42-5LT10-0FA0		1.100	7.000	B	4AM48 42-5LT10-0FA1		1.100	7.000
0.63	2.35	B	4AM52 42-5LT10-0FA0		1.700	7.900	B	4AM52 42-5LT10-0FA1		1.700	7.900
0.8	3.4	B	4AM55 42-5LT10-0FA0		1.900	11.000	B	4AM55 42-5LT10-0FA1		1.900	11.000
1	5	B	4AM57 42-5LT10-0FA0		2.000	14.000	B	4AM57 42-5LT10-0FA1		2.000	14.000
1.6	7.3	B	4AM61 42-5LT10-0FA0		4.300	19.000	B	4AM61 42-5LT10-0FA1		4.100	19.000
2	9.7	B	4AM64 42-5LT10-0FA0		4.700	23.000	B	4AM64 42-5LT10-0FA1		4.700	23.000
2.5	13.3	B	4AM65 42-5LT10-0FA0		6.400	29.000	B	4AM65 42-5LT10-0FA1		6.400	29.000
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>											
0.063	0.19	B	4AM32 42-5LT10-0FA0		0.240	1.400	B	4AM32 42-5LT10-0FA1		0.240	1.400
0.1	0.31	B	4AM34 42-5LT10-0FA0		0.300	2.000	B	4AM34 42-5LT10-0FA1		0.260	2.000
0.16	0.49	B	4AM38 42-5LT10-0FA0		0.320	2.700	B	4AM38 42-5LT10-0FA1		0.320	2.700
0.25	0.85	B	4AM40 42-5LT10-0FA0		0.680	3.700	B	4AM40 42-5LT10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5LT10-0FB0		0.670	4.500	B	4AM43 42-5LT10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-5LT10-0FB0		1.100	5.400	B	4AM46 42-5LT10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-5LT10-0FB0		1.100	7.000	B	4AM48 42-5LT10-0FB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-5LT10-0FC0		0.240	2.700	B	4AM32 42-5LT10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-5LT10-0FC0		0.260	3.300	B	4AM34 42-5LT10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-5LT10-0FC0		0.320	5.600	B	4AM38 42-5LT10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-5LT10-0FC0		0.590	6.600	B	4AM40 42-5LT10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-5LT10-0FC0		0.670	7.400	B	4AM43 42-5LT10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-5LT10-0FC0		1.100	8.300	B	4AM46 42-5LT10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-5LT10-0FC0		1.100	9.900	B	4AM48 42-5LT10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-5LT10-0FC0		1.700	10.800	B	4AM52 42-5LT10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-5LT10-0FC0		1.900	13.900	B	4AM55 42-5LT10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-5LT10-0FC0		2.000	16.900	B	4AM57 42-5LT10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-5LT10-0FC0		4.100	26.700	B	4AM61 42-5LT10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-5LT10-0FC0		4.700	30.700	B	4AM64 42-5LT10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-5LT10-0FC0		6.400	36.700	B	4AM65 42-5LT10-0FC1		6.400	36.700
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-5LT10-0FD0		0.240	2.700	B	4AM32 42-5LT10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-5LT10-0FD0		0.300	3.300	B	4AM34 42-5LT10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-5LT10-0FD0		0.320	5.600	B	4AM38 42-5LT10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-5LT10-0FD0		0.590	6.600	B	4AM40 42-5LT10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-5LT10-0FD0		0.670	7.400	B	4AM43 42-5LT10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-5LT10-0FD0		1.100	8.300	B	4AM46 42-5LT10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-5LT10-0FD0		1.100	9.900	B	4AM48 42-5LT10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-5LT10-0FD0		1.700	10.800	B	4AM52 42-5LT10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-5LT10-0FD0		1.900	13.900	B	4AM55 42-5LT10-0FD1		1.900	13.900
0.75	5	B	4AM57 42-5LT10-0FD0		2.000	16.900	B	4AM57 42-5LT10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-5LT10-0FD0		4.100	26.700	B	4AM61 42-5LT10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-5LT10-0FD0		4.700	30.700	B	4AM64 42-5LT10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-5LT10-0FD0		6.400	36.700	B	4AM65 42-5LT10-0FD1		6.400	36.700

<sup>1)</sup> Without **ce** approval.

<sup>2)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>3)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM, 4AT isolating, control and mains transformers

With one input voltage

Rated input voltage  $U_{1N}$  690 V  $\pm 5\%$  1),  
rated output voltage  $U_{2N}$  230 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{short.}$ <sup>2)</sup> kVA	DT <sup>3)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>3)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version<sup>4)</sup></b>											
0.063	0.19	B	4AM32 42-5MT10-0FA0		0.240	1.400	B	4AM32 42-5MT10-0FA1		0.240	1.400
0.1	0.31	B	4AM34 42-5MT10-0FA0		0.260	2.000	B	4AM34 42-5MT10-0FA1		0.320	2.000
0.16	0.49	B	4AM38 42-5MT10-0FA0		0.320	2.700	B	4AM38 42-5MT10-0FA1		0.320	2.700
0.25	0.85	B	4AM40 42-5MT10-0FA0		0.590	3.700	B	4AM40 42-5MT10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5MT10-0FA0		0.670	4.500	B	4AM43 42-5MT10-0FA1		0.670	4.500
0.4	1.44	B	4AM46 42-5MT10-0FA0		1.100	5.400	B	4AM46 42-5MT10-0FA1		1.100	5.400
0.5	2	B	4AM48 42-5MT10-0FA0		1.100	7.000	B	4AM48 42-5MT10-0FA1		1.100	7.000
0.63	2.35	B	4AM52 42-5MT10-0FA0		1.700	7.900	B	4AM52 42-5MT10-0FA1		1.700	7.900
0.8	3.4	B	4AM55 42-5MT10-0FA0		1.900	11.000	B	4AM55 42-5MT10-0FA1		1.900	11.000
1	5	B	4AM57 42-5MT10-0FA0		2.000	14.000	B	4AM57 42-5MT10-0FA1		2.000	14.000
1.6	7.3	B	4AM61 42-5MT10-0FA0		4.100	19.000	B	4AM61 42-5MT10-0FA1		4.100	19.000
2	9.7	B	4AM64 42-5MT10-0FA0		4.700	23.000	B	4AM64 42-5MT10-0FA1		4.700	23.000
2.5	13.3	B	4AM65 42-5MT10-0FA0		6.400	29.000	B	4AM65 42-5MT10-0FA1		6.400	29.000
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>											
0.063	0.19	B	4AM32 42-5MT10-0FA0		0.240	1.400	B	4AM32 42-5MT10-0FA1		0.240	1.400
0.1	0.31	B	4AM34 42-5MT10-0FA0		0.260	2.000	B	4AM34 42-5MT10-0FA1		0.320	2.000
0.16	0.49	B	4AM38 42-5MT10-0FA0		0.320	2.700	B	4AM38 42-5MT10-0FA1		0.320	2.700
0.25	0.85	B	4AM40 42-5MT10-0FA0		0.590	3.700	B	4AM40 42-5MT10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5MT10-0FB0		0.720	4.500	B	4AM43 42-5MT10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-5MT10-0FB0		1.100	5.400	B	4AM46 42-5MT10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-5MT10-0FB0		1.100	7.000	B	4AM48 42-5MT10-0FB1		1.100	7.000
<b>Degree of protection IP23</b>											
0.057	0.19	B	4AM32 42-5MT10-0FC0		0.240	2.700	B	4AM32 42-5MT10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-5MT10-0FC0		0.260	3.300	B	4AM34 42-5MT10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-5MT10-0FC0		0.320	5.600	B	4AM38 42-5MT10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-5MT10-0FC0		0.590	6.600	B	4AM40 42-5MT10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-5MT10-0FC0		0.670	7.400	B	4AM43 42-5MT10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-5MT10-0FC0		1.100	8.300	B	4AM46 42-5MT10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-5MT10-0FC0		1.100	9.900	B	4AM48 42-5MT10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-5MT10-0FC0		1.700	10.800	B	4AM52 42-5MT10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-5MT10-0FC0		1.900	13.900	B	4AM55 42-5MT10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-5MT10-0FC0		2.000	16.900	B	4AM57 42-5MT10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-5MT10-0FC0		4.100	26.700	B	4AM61 42-5MT10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-5MT10-0FC0		4.700	30.700	B	4AM64 42-5MT10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-5MT10-0FC0		6.400	36.700	B	4AM65 42-5MT10-0FC1		6.400	36.700
<b>Degree of protection IP54</b>											
0.05	0.19	B	4AM32 42-5MT10-0FD0		0.240	2.700	B	4AM32 42-5MT10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-5MT10-0FD0		0.260	3.300	B	4AM34 42-5MT10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-5MT10-0FD0		0.320	5.600	B	4AM38 42-5MT10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-5MT10-0FD0		0.590	6.600	B	4AM40 42-5MT10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-5MT10-0FD0		0.670	7.400	B	4AM43 42-5MT10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-5MT10-0FD0		1.100	8.300	B	4AM46 42-5MT10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-5MT10-0FD0		1.100	9.900	B	4AM48 42-5MT10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-5MT10-0FD0		1.700	10.800	B	4AM52 42-5MT10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-5MT10-0FD0		1.900	13.900	B	4AM55 42-5MT10-0FD1		1.900	13.900
0.75	5	B	4AM57 42-5MT10-0FD0		2.000	16.900	B	4AM57 42-5MT10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-5MT10-0FD0		4.100	26.700	B	4AM61 42-5MT10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-5MT10-0FD0		4.700	30.700	B	4AM64 42-5MT10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-5MT10-0FD0		6.400	36.700	B	4AM65 42-5MT10-0FD1		6.400	36.700

1) Without **cnus** approval.

2) For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

3) The delivery time class depends on the quantity, see page 10/4 "Options".

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

4AM, 4AT isolating,  
control and mains transformers

For European voltages

Rated input voltage  $U_{1N}$  400/230 V  $\pm$  15 V,  
rated output voltage  $U_{2N}$  2 x 115 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{short.}$ <sup>1)</sup>	DT <sup>2)</sup>	Screw terminals <sup>3)/</sup> flat connectors <sup>3)</sup>		Cu weight per PU approx.	Total weight per PU approx.	DT <sup>2)</sup>	Cage Clamp terminals	Cu weight per PU approx.	Total weight per PU approx.
KVA	KVA				kg	kg			kg	kg
<b>Degree of protection IP00, standard version<sup>4)</sup></b>										
0.063	0.19	▶	4AM32 42-8JD40-0FA0		0.340	1.500	B	4AM32 42-8JD40-0FA1	0.340	1.500
0.1	0.31	▶	4AM34 42-8JD40-0FA0		0.360	2.100	B	4AM34 42-8JD40-0FA1	0.360	2.100
0.16	0.49	▶	4AM38 42-8JD40-0FA0		0.450	2.800	B	4AM38 42-8JD40-0FA1	0.450	2.800
0.25	0.85	▶	4AM40 42-8JD40-0FA0		0.820	3.900	B	4AM40 42-8JD40-0FA1	0.820	3.900
0.315	1.12	▶	4AM43 42-8JD40-0FA0		1.000	4.800	B	4AM43 42-8JD40-0FA1	1.000	4.800
0.4	1.44	▶	4AM46 42-8JD40-0FA0		1.500	5.800	B	4AM46 42-8JD40-0FA1	1.500	5.800
0.5	2	▶	4AM48 42-8JD40-0FA0		1.500	7.400	B	4AM48 42-8JD40-0FA1	1.500	7.400
0.63	2.35	▶	4AM52 42-8JD40-0FA0		2.400	8.600		--		
0.8	3.4	▶	4AM55 42-8JD40-0FA0		2.600	12.000		--		
1	5	▶	4AM57 42-8JD40-0FA0		2.800	15.000		--		
1.6	7.3	▶	4AM61 42-8JD40-0FA0		5.700	20.000		--		
2	9.7	B	4AM64 42-8JD40-0FA0		6.500	24.000		--		
2.5	13.3	B	4AM65 42-8JD40-0FA0		8.900	32.000		--		
4	17.8	B	4AT30 32-8JD40-0FA0		9.200	29.000		--		
5	19	B	4AT36 12-8JD40-0FA0		7.300	35.000		--		
6.3	24.5	B	4AT36 32-8JD40-0FA0		14.700	46.000		--		
8	31.1	B	4AT39 12-8JD40-0FA0		13.900	49.000		--		
10	36.4	B	4AT39 32-8JD40-0FA0		28.400	67.000		--		
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>										
0.063	0.19	▶	4AM32 42-8JD40-0FA0		0.340	1.500	B	4AM32 42-8JD40-0FA1	0.340	1.500
0.1	0.31	▶	4AM34 42-8JD40-0FA0		0.360	2.100	B	4AM34 42-8JD40-0FA1	0.360	2.100
0.16	0.49	▶	4AM38 42-8JD40-0FA0		0.450	2.800	B	4AM38 42-8JD40-0FA1	0.450	2.800
0.25	0.85	▶	4AM40 42-8JD40-0FA0		0.820	3.900	B	4AM40 42-8JD40-0FA1	0.820	3.900
0.315	1.12	B	4AM43 42-8JD40-0FB0		1.000	4.800	B	4AM43 42-8JD40-0FB1	1.000	4.800
0.4	1.44	B	4AM46 42-8JD40-0FB0		1.500	5.800	B	4AM46 42-8JD40-0FB1	1.500	5.800
0.5	2	B	4AM48 42-8JD40-0FB0		1.500	7.400	B	4AM48 42-8JD40-0FB1	1.500	7.400
<b>Degree of protection IP23</b>										
0.057	0.19	B	4AM32 42-8JD40-0FC0		0.340	2.800	B	4AM32 42-8JD40-0FC1	0.340	2.800
0.09	0.31	B	4AM34 42-8JD40-0FC0		0.360	3.400	B	4AM34 42-8JD40-0FC1	0.360	3.400
0.145	0.49	B	4AM38 42-8JD40-0FC0		0.450	5.700	B	4AM38 42-8JD40-0FC1	0.450	5.700
0.225	0.85	B	4AM40 42-8JD40-0FC0		0.820	6.800	B	4AM40 42-8JD40-0FC1	0.820	6.800
0.268	1.12	B	4AM43 42-8JD40-0FC0		1.000	7.700	B	4AM43 42-8JD40-0FC1	1.000	7.700
0.34	1.44	B	4AM46 42-8JD40-0FC0		1.500	8.700	B	4AM46 42-8JD40-0FC1	1.500	8.700
0.425	2	B	4AM48 42-8JD40-0FC0		1.500	10.300	B	4AM48 42-8JD40-0FC1	1.500	10.300
0.535	2.35	B	4AM52 42-8JD40-0FC0		2.400	11.500		--		
0.68	3.4	B	4AM55 42-8JD40-0FC0		2.600	14.900		--		
0.85	5	B	4AM57 42-8JD40-0FC0		2.800	17.900		--		
1.36	7.3	B	4AM61 42-8JD40-0FC0		5.700	27.700		--		
1.7	9.7	B	4AM64 42-8JD40-0FC0		6.500	31.700		--		
2.13	13.3	B	4AM65 42-8JD40-0FC0		8.900	39.700		--		
3.6	17.8	B	4AT30 32-8JD40-0FC0		9.300	36.700		--		
4.5	19	B	4AT36 12-8JD40-0FC0		7.300	42.700		--		
5.6	24.5	B	4AT36 32-8JD40-0FC0		12.200	48.700		--		
7.1	31.1	B	4AT39 12-8JD40-0FC0		14.000	62.900		--		
9	36.4	B	4AT39 32-8JD40-0FC0		23.700	72.900		--		
<b>Degree of protection IP54</b>										
0.05	0.19	B	4AM32 42-8JD40-0FD0		0.340	2.800	B	4AM32 42-8JD40-0FD1	0.340	2.800
0.08	0.31	B	4AM34 42-8JD40-0FD0		0.360	3.400	B	4AM34 42-8JD40-0FD1	0.360	3.400
0.128	0.49	B	4AM38 42-8JD40-0FD0		0.450	5.700	B	4AM38 42-8JD40-0FD1	0.450	5.700
0.2	0.85	B	4AM40 42-8JD40-0FD0		0.820	6.800	B	4AM40 42-8JD40-0FD1	0.820	6.800
0.236	1.12	B	4AM43 42-8JD40-0FD0		1.000	7.700	B	4AM43 42-8JD40-0FD1	1.000	7.700
0.3	1.44	B	4AM46 42-8JD40-0FD0		1.500	8.700	B	4AM46 42-8JD40-0FD1	1.500	8.700
0.375	2	B	4AM48 42-8JD40-0FD0		1.500	10.300	B	4AM48 42-8JD40-0FD1	1.500	10.300
0.475	2.35	B	4AM52 42-8JD40-0FD0		2.400	11.500		--		
0.6	3.4	B	4AM55 42-8JD40-0FD0		2.600	14.900		--		
0.75	5	B	4AM57 42-8JD40-0FD0		2.800	17.900		--		
1.2	7.3	B	4AM61 42-8JD40-0FD0		5.700	27.700		--		
1.5	9.7	B	4AM64 42-8JD40-0FD0		6.500	31.700		--		
1.875	13.3	B	4AM65 42-8JD40-0FD0		8.900	39.700		--		
3.15	17.8	B	4AT30 32-8JD40-0FD0		9.300	36.700		--		
4	19	B	4AT36 12-8JD40-0FD0		7.300	42.700		--		
5	24.5	B	4AT36 32-8JD40-0FD0		12.200	48.700		--		
6.3	31.1	B	4AT39 12-8JD40-0FD0		14.000	62.900		--		
8	36.4	B	4AT39 32-8JD40-0FD0		23.700	72.900		--		

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> The 4AT types are only supplied with screw terminals.

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers



### 4AM, 4AT isolating, control and mains transformers

#### In multi-voltage version

Rated input voltage  $U_{1N}$   
550-525-500-480-460-440-415-400-380-230-208 V,  
rated output voltage  $U_{2N} 2 \times 115$  V

c  us, 

PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{short.}$ <sup>1)</sup>	DT <sup>2)</sup>	Screw terminals <sup>3)</sup> / flat connectors <sup>3)</sup>	 	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.	Price per PU	kg	kg
<b>Degree of protection IP00, standard version<sup>4)</sup></b>						
0.063	0.19	▶	4AM32 42-8DD40-0FA0		0.340	1.500
0.1	0.31	▶	4AM34 42-8DD40-0FA0		0.360	2.100
0.16	0.49	▶	4AM38 42-8DD40-0FA0		0.450	2.800
0.25	0.85	▶	4AM40 42-8DD40-0FA0		0.820	3.900
0.315	1.12	▶	4AM43 42-8DD40-0FA0		1.000	4.800
0.4	1.44	▶	4AM46 42-8DD40-0FA0		1.500	5.800
0.5	2	▶	4AM48 42-8DD40-0FA0		1.500	7.400
0.63	2.35	▶	4AM52 42-8DD40-0FA0		2.400	8.600
0.8	3.4	▶	4AM55 42-8DD40-0FA0		2.600	12.000
1	5	▶	4AM57 42-8DD40-0FA0		2.800	15.000
1.6	7.3	▶	4AM61 42-8DD40-0FA0		5.700	20.000
2	9.7	▶	4AM64 42-8DD40-0FA0		6.500	24.000
2.5	13.3	▶	4AM65 42-8DD40-0FA0		8.900	32.000
4	17.8	▶	4AT30 32-8DD40-0FA0		9.300	29.000
5	19	▶	4AT36 12-8DD40-0FA0		7.300	35.000
6.3	24.5	▶	4AT36 32-8DD40-0FA0		12.200	41.000
8	31.1	B	4AT39 12-8DD40-0FA0		13.900	49.000
10	36.4	B	4AT39 32-8DD40-0FA0		23.700	59.000
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>						
0.063	0.19	▶	4AM32 42-8DD40-0FA0		0.340	1.500
0.1	0.31	▶	4AM34 42-8DD40-0FA0		0.360	2.100
0.16	0.49	▶	4AM38 42-8DD40-0FA0		0.450	2.800
0.25	0.85	▶	4AM40 42-8DD40-0FA0		0.820	3.900
0.315	1.12	B	4AM43 42-8DD40-0FB0		1.000	4.800
0.4	1.44	B	4AM46 42-8DD40-0FB0		1.500	5.800
0.5	2	B	4AM48 42-8DD40-0FB0		1.500	7.400
<b>Degree of protection IP23</b>						
0.057	0.19	B	4AM32 42-8DD40-0FC0		0.340	2.800
0.09	0.31	B	4AM34 42-8DD40-0FC0		0.360	3.400
0.145	0.49	B	4AM38 42-8DD40-0FC0		0.450	5.700
0.225	0.85	B	4AM40 42-8DD40-0FC0		0.820	6.800
0.268	1.12	B	4AM43 42-8DD40-0FC0		1.000	7.700
0.34	1.44	B	4AM46 42-8DD40-0FC0		1.500	8.700
0.425	2	B	4AM48 42-8DD40-0FC0		1.500	10.300
0.535	2.35	B	4AM52 42-8DD40-0FC0		2.400	11.500
0.68	3.4	B	4AM55 42-8DD40-0FC0		2.600	14.900
0.85	5	B	4AM57 42-8DD40-0FC0		2.800	17.900
1.36	7.3	B	4AM61 42-8DD40-0FC0		5.700	27.700
1.7	9.7	B	4AM64 42-8DD40-0FC0		6.500	31.700
2.13	13.3	B	4AM65 42-8DD40-0FC0		8.900	39.700
3.6	17.8	B	4AT30 32-8DD40-0FC0		9.300	36.700
4.5	19	B	4AT36 12-8DD40-0FC0		7.300	42.700
5.6	24.5	B	4AT36 32-8DD40-0FC0		12.200	48.700
7.1	31.1	B	4AT39 12-8DD40-0FC0		13.900	62.900
9	36.4	B	4AT39 32-8DD40-0FC0		23.700	72.900
<b>Degree of protection IP54</b>						
0.05	0.19	B	4AM32 42-8DD40-0FD0		0.340	2.800
0.08	0.31	B	4AM34 42-8DD40-0FD0		0.360	3.400
0.128	0.49	B	4AM38 42-8DD40-0FD0		0.450	5.700
0.2	0.85	B	4AM40 42-8DD40-0FD0		0.820	6.800
0.236	1.12	B	4AM43 42-8DD40-0FD0		1.000	7.700
0.3	1.44	B	4AM46 42-8DD40-0FD0		1.500	8.700
0.375	2	B	4AM48 42-8DD40-0FD0		1.500	10.300
0.475	2.35	B	4AM52 42-8DD40-0FD0		2.400	11.500
0.6	3.4	B	4AM55 42-8DD40-0FD0		2.600	14.900
0.75	5	B	4AM57 42-8DD40-0FD0		2.800	17.900
1.2	7.3	B	4AM61 42-8DD40-0FD0		5.700	27.700
1.5	9.7	B	4AM64 42-8DD40-0FD0		6.500	31.700
1.875	13.3	B	4AM65 42-8DD40-0FD0		8.900	39.700
3.15	17.8	B	4AT30 32-8DD40-0FD0		9.300	36.700
4	19	B	4AT36 12-8DD40-0FD0		7.300	42.700
5	24.5	B	4AT36 32-8DD40-0FD0		12.200	48.700
6.3	31.1	B	4AT39 12-8DD40-0FD0		13.900	62.900
8	36.4	B	4AT39 32-8DD40-0FD0		23.700	72.900

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> The 4AT types are only supplied with screw terminals.

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.



# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers


4AM, 4AT isolating,  
control and mains transformers

### In multi-voltage version

Rated input voltage  $U_{1N}$   
600-575-550-525-500-480-460-440-415-400-240-230 V,  
rated output voltage  $U_{2N}$  2 × 115 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{short.}^{1)}$	DT <sup>2)</sup>	Screw terminals <sup>3)/</sup> flat connectors <sup>3)</sup>		Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.	Price per PU	kg	kg
<b>Degree of protection IP00, standard version<sup>4)</sup></b>						
0.063	0.19	▶	4AM32 42-8ED40-0FA0		0.340	1.500
0.1	0.31	▶	4AM34 42-8ED40-0FA0		0.360	2.100
0.16	0.49	▶	4AM38 42-8ED40-0FA0		0.450	2.800
0.25	0.85	▶	4AM40 42-8ED40-0FA0		0.820	3.900
0.315	1.12	▶	4AM43 42-8ED40-0FA0		1.000	4.800
0.4	1.44	▶	4AM46 42-8ED40-0FA0		1.500	5.800
0.5	2	▶	4AM48 42-8ED40-0FA0		1.500	7.400
0.63	2.35	▶	4AM52 42-8ED40-0FA0		2.400	8.600
0.8	3.4	▶	4AM55 42-8ED40-0FA0		2.600	12.000
1	5	▶	4AM57 42-8ED40-0FA0		2.800	15.000
1.6	7.3	▶	4AM61 42-8ED40-0FA0		5.700	20.000
2	9.7	▶	4AM64 42-8ED40-0FA0		6.500	24.000
2.5	13.3	▶	4AM65 42-8ED40-0FA0		8.900	32.000
4	17.8	B	4AT30 32-8ED40-0FA0		9.300	29.000
5	19	B	4AT36 12-8ED40-0FA0		7.300	35.000
6.3	24.5	B	4AT36 32-8ED40-0FA0		12.200	41.000
8	31.1	B	4AT39 12-8ED40-0FA0		13.900	49.000
10	36.4	B	4AT39 32-8ED40-0FA0		23.700	59.000
<b>Degree of protection IP00, standard rail mounting<sup>4)</sup></b>						
0.063	0.19	▶	4AM32 42-8ED40-0FA0		0.340	1.500
0.1	0.31	▶	4AM34 42-8ED40-0FA0		0.360	2.100
0.16	0.49	▶	4AM38 42-8ED40-0FA0		0.450	2.800
0.25	0.85	▶	4AM40 42-8ED40-0FA0		0.820	3.900
0.315	1.12	B	4AM43 42-8ED40-0FB0		1.000	4.800
0.4	1.44	B	4AM46 42-8ED40-0FB0		1.500	5.800
0.5	2	B	4AM48 42-8ED40-0FB0		1.500	7.400
<b>Degree of protection IP23</b>						
0.057	0.19	B	4AM32 42-8ED40-0FC0		0.340	2.800
0.09	0.31	B	4AM34 42-8ED40-0FC0		0.360	3.400
0.145	0.49	B	4AM38 42-8ED40-0FC0		0.450	5.700
0.225	0.85	B	4AM40 42-8ED40-0FC0		0.820	6.800
0.268	1.12	B	4AM43 42-8ED40-0FC0		1.000	7.700
0.34	1.44	B	4AM46 42-8ED40-0FC0		1.500	8.700
0.425	2	B	4AM48 42-8ED40-0FC0		1.500	10.300
0.535	2.35	B	4AM52 42-8ED40-0FC0		2.400	11.500
0.68	3.4	B	4AM55 42-8ED40-0FC0		2.600	14.900
0.85	5	B	4AM57 42-8ED40-0FC0		2.800	17.900
1.36	7.3	B	4AM61 42-8ED40-0FC0		4.600	27.700
1.7	9.7	B	4AM64 42-8ED40-0FC0		6.500	31.700
2.13	13.3	B	4AM65 42-8ED40-0FC0		8.900	39.700
3.6	17.8	B	4AT30 32-8ED40-0FC0		9.300	36.700
4.5	19	B	4AT36 12-8ED40-0FC0		7.300	42.700
5.6	24.5	B	4AT36 32-8ED40-0FC0		12.200	48.700
7.1	31.1	B	4AT39 12-8ED40-0FC0		13.900	62.900
9	36.4	B	4AT39 32-8ED40-0FC0		23.700	72.900
<b>Degree of protection IP23</b>						
0.05	0.19	B	4AM32 42-8ED40-0FD0		0.340	2.800
0.08	0.31	B	4AM34 42-8ED40-0FD0		0.360	3.400
0.128	0.49	B	4AM38 42-8ED40-0FD0		0.450	5.700
0.2	0.85	B	4AM40 42-8ED40-0FD0		0.820	6.800
0.236	1.12	B	4AM43 42-8ED40-0FD0		1.000	7.700
0.3	1.44	B	4AM46 42-8ED40-0FD0		1.500	8.700
0.375	2	B	4AM48 42-8ED40-0FD0		1.500	10.300
0.475	2.35	B	4AM52 42-8ED40-0FD0		2.400	11.500
0.6	3.4	B	4AM55 42-8ED40-0FD0		2.600	14.900
0.75	5	B	4AM57 42-8ED40-0FD0		2.800	17.900
1.2	7.3	B	4AM61 42-8ED40-0FD0		5.700	27.700
1.5	9.7	B	4AM64 42-8ED40-0FD0		6.500	31.700
1.875	13.3	B	4AM65 42-8ED40-0FD0		8.900	39.700
3.15	17.8	B	4AT30 32-8ED40-0FD0		9.300	36.700
4	19	B	4AT36 12-8ED40-0FD0		7.300	42.700
5	24.5	B	4AT36 32-8ED40-0FD0		12.200	48.700
6.3	31.1	B	4AT39 12-8ED40-0FD0		13.900	62.900
8	36.4	B	4AT39 32-8ED40-0FD0		23.700	72.900

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> The 4AT types are only supplied with screw terminals.

<sup>4)</sup> For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

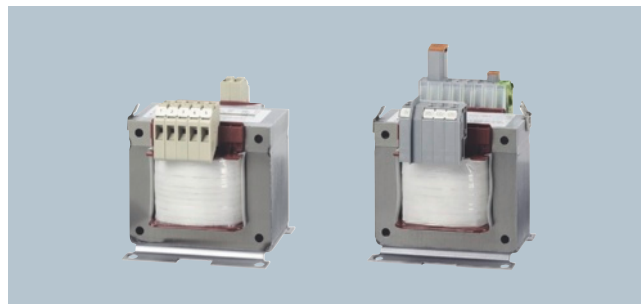
# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM isolating and mains transformers

#### Overview

- According to EN 61558-2-4, -2-1
- **cULus**<sup>1)</sup>
- $t_a = 40\text{ °C/B}$
- AC 50/60 Hz
- Degree of protection IP00, IP23 and IP54



4AM with screw/flat connectors (left) and with Cage Clamp terminals (right)



<sup>1)</sup> **cULus** approvals for voltages  $\leq 600\text{ V}$  (excluding tappings) and degree of protection IP00.

#### Selection and ordering data

##### With one input voltage

Rated input voltage  $U_{1N} 230\text{ V} \pm 5\%$ ,  
rated output voltage  $U_{2N} 110\text{ V}$



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{shortt.}$ kVA	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version</b>											
0.025	--	B	4AM23 42-4TJ10-0FA0		0.110	0.600	B	4AM23 42-4TJ10-0FA1		0.110	0.600
0.04	--	B	4AM26 42-4TJ10-0FA0		0.150	0.800	B	4AM26 42-4TJ10-0FA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-4TJ10-0FB0		0.110	0.600	B	4AM23 42-4TJ10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-4TJ10-0FB0		0.150	0.800	B	4AM26 42-4TJ10-0FB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-4TJ10-0FC0		0.110	1.900	B	4AM23 42-4TJ10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-4TJ10-0FC0		0.150	2.100	B	4AM26 42-4TJ10-0FC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-4TJ10-0FD0		0.110	1.900	B	4AM23 42-4TJ10-0FD1		0.110	1.900
0.03	--	B	4AM26 42-4TJ10-0FD0		0.150	2.100	B	4AM26 42-4TJ10-0FD1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

##### With one input voltage

Rated input voltage  $U_{1N} 230\text{ V} \pm 5\%$ ,  
rated output voltage  $U_{2N} 230\text{ V}$



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	Short-time rating $P_{shortt.}$ kVA	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version</b>											
0.025	--	▶	4AM23 42-4TT10-0FA0		0.110	0.600	B	4AM23 42-4TT10-0FA1		0.110	0.600
0.04	--	▶	4AM26 42-4TT10-0FA0		0.150	0.800	B	4AM26 42-4TT10-0FA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-4TT10-0FB0		0.110	0.600	B	4AM23 42-4TT10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-4TT10-0FB0		0.150	0.800	B	4AM26 42-4TT10-0FB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-4TT10-0FC0		0.110	1.900	B	4AM23 42-4TT10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-4TT10-0FC0		0.150	2.100	B	4AM26 42-4TT10-0FC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-4TT10-0FD0		0.110	1.900	B	4AM23 42-4TT10-0FD1		0.110	1.900
0.03	--	B	4AM26 42-4TT10-0FD0		0.150	2.100	B	4AM26 42-4TT10-0FD1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM isolating and mains transformers

#### With one input voltage

Rated input voltage  $U_{1N}$  400 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  110 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{shortt.}$	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx.	Total weight per PU approx.	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx.	Total weight per PU approx.
			Order No.	Price per PU				Order No.	Price per PU		
kVA	kVA				kg	kg				kg	kg
<b>Degree of protection IP00, standard version</b>											
0.025	--	B	4AM23 42-5AJ10-0FA0		0.110	0.600	B	4AM23 42-5AJ10-0FA1		0.110	0.600
0.04	--	B	4AM26 42-5AJ10-0FA0		0.150	0.800	B	4AM26 42-5AJ10-0FA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-5AJ10-0FB0		0.110	0.600	B	4AM23 42-5AJ10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-5AJ10-0FB0		0.150	0.800	B	4AM26 42-5AJ10-0FB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-5AJ10-0FC0		0.110	1.900	B	4AM23 42-5AJ10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-5AJ10-0FC0		0.150	2.100	B	4AM26 42-5AJ10-0FC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-5AJ10-0FD0		0.110	1.900	B	4AM23 42-5AJ10-0FD1		0.110	1.900
0.03	--	B	4AM26 42-5AJ10-0FD0		0.150	2.100	B	4AM26 42-5AJ10-0FD1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

#### With one input voltage

Rated input voltage  $U_{1N}$  400 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  230 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{shortt.}$	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx.	Total weight per PU approx.	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx.	Total weight per PU approx.
			Order No.	Price per PU				Order No.	Price per PU		
kVA	kVA				kg	kg				kg	kg
<b>Degree of protection IP00, standard version</b>											
0.025	--		4AM23 42-5AT10-0FA0		0.110	0.600	B	4AM23 42-5AT10-0FA1		0.110	0.600
0.04	--		4AM26 42-5AT10-0FA0		0.150	0.800	B	4AM26 42-5AT10-0FA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-5AT10-0FB0		0.110	0.600	B	4AM23 42-5AT10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-5AT10-0FB0		0.150	0.800	B	4AM26 42-5AT10-0FB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-5AT10-0FC0		0.110	1.900	B	4AM23 42-5AT10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-5AT10-0FC0		0.160	2.100	B	4AM26 42-5AT10-0FC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-5AT10-0FD0		0.110	1.900	B	4AM23 42-5AT10-0FD1		0.110	1.900
0.032	--	B	4AM26 42-5AT10-0FD0		0.150	2.100	B	4AM26 42-5AT10-0FD1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM isolating and mains transformers

With one input voltage

Rated input voltage  $U_{1N}$  440 V  $\pm 5$  %,  
rated output voltage  $U_{2N}$  110 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{shortt.}$	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx.	Total weight per PU approx.	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx.	Total weight per PU approx.
			Order No.	Price per PU				Order No.	Price per PU		
kVA	kVA				kg	kg				kg	kg
<b>Degree of protection IP00, standard version</b>											
0.025	--	B	4AM23 42-5CJ10-0FA0		0.110	0.600	B	4AM23 42-5CJ10-0FA1		0.110	0.600
0.04	--	B	4AM26 42-5CJ10-0FA0		0.150	0.800	B	4AM26 42-5CJ10-0FA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-5CJ10-0FB0		0.110	0.600	B	4AM23 42-5CJ10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-5CJ10-0FB0		0.150	0.800	B	4AM26 42-5CJ10-0FB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-5CJ10-0FC0		0.110	1.900	B	4AM23 42-5CJ10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-5CJ10-0FC0		0.150	2.100	B	4AM26 42-5CJ10-0FC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-5CJ10-0FD0		0.110	1.900	B	4AM23 42-5CJ10-0FD1		0.110	1.900
0.03	--	B	4AM26 42-5CJ10-0FD0		0.150	2.100	B	4AM26 42-5CJ10-0FD1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

With one input voltage

Rated input voltage  $U_{1N}$  440 V  $\pm 5$  %,  
rated output voltage  $U_{2N}$  230 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{shortt.}$	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx.	Total weight per PU approx.	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx.	Total weight per PU approx.
			Order No.	Price per PU				Order No.	Price per PU		
kVA	kVA				kg	kg				kg	kg
<b>Degree of protection IP00, standard version</b>											
0.025	--	B	4AM23 42-5CT10-0FA0		0.110	0.600	C	4AM23 42-5CT10-0FA1		0.110	0.600
0.04	--	C	4AM26 42-5CT10-0FA0		0.150	0.800	C	4AM26 42-5CT10-0FA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	C	4AM23 42-5CT10-0FB0		0.110	0.600	C	4AM23 42-5CT10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-5CT10-0FB0		0.150	0.800	C	4AM26 42-5CT10-0FB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-5CT10-0FC0		0.110	1.900	C	4AM23 42-5CT10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-5CT10-0FC0		0.150	2.100	C	4AM26 42-5CT10-0FC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	C	4AM23 42-5CT10-0FD0		0.110	1.900	C	4AM23 42-5CT10-0FD1		0.110	1.900
0.03	--	C	4AM26 42-5CT10-0FD0		0.150	2.100	C	4AM26 42-5CT10-0FD1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM isolating and mains transformers

#### With one input voltage

Rated input voltage  $U_{1N}$  500 V  $\pm 5$  %,  
rated output voltage  $U_{2N}$  110 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{shortt.}$	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx.	Total weight per PU approx.	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx.	Total weight per PU approx.
			Order No.	Price per PU				Order No.	Price per PU		
kVA	kVA				kg	kg				kg	kg
<b>Degree of protection IP00, standard version</b>											
0.025	--	B	4AM23 42-5FJ10-0FA0		0.110	0.600	B	4AM23 42-5FJ10-0FA1		0.110	0.600
0.04	--	B	4AM26 42-5FJ10-0FA0		0.150	0.800	B	4AM26 42-5FJ10-0FA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-5FJ10-0FB0		0.110	0.600	B	4AM23 42-5FJ10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-5FJ10-0FB0		0.150	0.800	B	4AM26 42-5FJ10-0FB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-5FJ10-0FC0		0.110	1.900	B	4AM23 42-5FJ10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-5FJ10-0FC0		0.150	2.100	B	4AM26 42-5FJ10-0FC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-5FJ10-0FD0		0.110	1.900	B	4AM23 42-5FJ10-0FD1		0.110	1.900
0.03	--	B	4AM26 42-5FJ10-0FD0		0.150	2.100	B	4AM26 42-5FJ10-0FD1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

#### With one input voltage

Rated input voltage  $U_{1N}$  500 V  $\pm 5$  %,  
rated output voltage  $U_{2N}$  230 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{shortt.}$	DT <sup>1)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx.	Total weight per PU approx.	DT <sup>1)</sup>	Cage Clamp terminals		Cu weight per PU approx.	Total weight per PU approx.
			Order No.	Price per PU				Order No.	Price per PU		
kVA	kVA				kg	kg				kg	kg
<b>Degree of protection IP00, standard version</b>											
0.025	--	C	4AM23 42-5FT10-0FA0		0.110	0.600	C	4AM23 42-5FT10-0FA1		0.110	0.600
0.04	--	B	4AM26 42-5FT10-0FA0		0.150	0.800	C	4AM26 42-5FT10-0FA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	C	4AM23 42-5FT10-0FB0		0.110	0.600	C	4AM23 42-5FT10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-5FT10-0FB0		0.160	0.800	C	4AM26 42-5FT10-0FB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	C	4AM23 42-5FT10-0FC0		0.110	1.900	C	4AM23 42-5FT10-0FC1		0.110	1.900
0.036	--	C	4AM26 42-5FT10-0FC0		0.150	2.100	B	4AM26 42-5FT10-0FC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	C	4AM23 42-5FT10-0FD0		0.110	1.900	C	4AM23 42-5FT10-0FD1		0.110	1.900
0.03	--	C	4AM26 42-5FT10-0FD0		0.150	2.100	C	4AM26 42-5FT10-0FD1		0.150	2.100

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM isolating and mains transformers

#### With one input voltage

Rated input voltage  $U_{1N}$  660 V  $\pm 5\%$ <sup>1)</sup>,  
rated output voltage  $U_{2N}$  230 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{shortt.}$	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version</b>											
0.025	--	B	4AM23 42-5LT10-0FA0		0.110	0.600	B	4AM23 42-5LT10-0FA1		0.110	0.600
0.04	--	C	4AM26 42-5LT10-0FA0		0.150	0.800	B	4AM26 42-5LT10-0FA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-5LT10-0FB0		0.110	0.600	B	4AM23 42-5LT10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-5LT10-0FB0		0.150	0.800	B	4AM26 42-5LT10-0FB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-5LT10-0FC0		0.110	1.900	B	4AM23 42-5LT10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-5LT10-0FC0		0.150	2.100	B	4AM26 42-5LT10-0FC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-5LT10-0FD0		0.110	1.900	B	4AM23 42-5LT10-0FD1		0.110	1.900
0.03	--	B	4AM26 42-5LT10-0FD0		0.150	2.100	B	4AM26 42-5LT10-0FD1		0.150	2.100

1) Without **CE** approval.

2) The delivery time class depends on the quantity, see page 10/4 "Options".

#### With one input voltage

Rated input voltage  $U_{1N}$  690 V  $\pm 5\%$ <sup>1)</sup>,  
rated output voltage  $U_{2N}$  230 V



PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	Short-time rating $P_{shortt.}$	DT <sup>2)</sup>	Screw terminals/ flat connectors		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>2)</sup>	Cage Clamp terminals		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
<b>Degree of protection IP00, standard version</b>											
0.025	--	B	4AM23 42-5MT10-0FA0		0.110	0.600	B	4AM23 42-5MT10-0FA1		0.110	0.600
0.04	--	B	4AM26 42-5MT10-0FA0		0.150	0.800	B	4AM26 42-5MT10-0FA1		0.150	0.800
<b>Degree of protection IP00, standard rail mounting</b>											
0.025	--	B	4AM23 42-5MT10-0FB0		0.110	0.600	B	4AM23 42-5MT10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-5MT10-0FB0		0.150	0.800	B	4AM26 42-5MT10-0FB1		0.150	0.800
<b>Degree of protection IP23</b>											
0.023	--	B	4AM23 42-5MT10-0FC0		0.110	1.900	B	4AM23 42-5MT10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-5MT10-0FC0		0.150	2.100	B	4AM26 42-5MT10-0FC1		0.150	2.100
<b>Degree of protection IP54</b>											
0.02	--	B	4AM23 42-5MT10-0FD0		0.110	1.900	B	4AM23 42-5MT10-0FD1		0.110	1.900
0.03	--	B	4AM26 42-5MT10-0FD0		0.150	2.100	B	4AM26 42-5MT10-0FD1		0.150	2.100

1) Without **CE** approval.

2) The delivery time class depends on the quantity, see page 10/4 "Options".

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

4AM, 4AT transformers  
with selectable voltages

### Overview

- 4AM and 4AT transformers configured as isolating, control and mains transformers according to EN 61558-2-4, -2-2, -2-1, or as safety, control and mains transformers according to EN 61558-2-6, -2-2, -2-1, or as autotransformers according to EN 61558-2-13 with selectable input and output voltages in the performance range from 0.025 kVA to 16 kVA (for autotransformers the type rating is always quoted) and additional options

#### • cULus<sup>1)</sup>

- 4AM:  $t_a = 40\text{ °C/B}$ , 4AT:  $t_a = 55\text{ °C/H}$
- Standard vector group: li0, for autotransformer: la0



<sup>1)</sup> The enclosures for the 4AM23 4 to 4AT43 2 transformers are cULus-approved.



4AM (left) and 4AT30 3 to 4AT43 2 (right)

### Selection and ordering data

PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104



Rated power <sup>1)</sup> $P_n$ with degree of protection				Short-time rating <sup>2)</sup> $P_{short}$	Selectable rated voltages $U_{1N}$ , $U_{2N}$	DT <sup>3)</sup>	Order No. stem	Basic price per PU	Additional price for standard options							Cu weight <sup>5)</sup> per PU approx. kg	Transformer weight <sup>5)</sup> per PU approx. kg	Total weight <sup>5)</sup> including enclosure per PU approx. kg
IP00	IP23	IP54	kVA						kVA	kVA	kVA	Two tappings in the range $\pm 5\%$ of the rated input or output voltage for constant power	One tapping on the input or output side for falling power	One additional separate winding on the input or output side	Shield winding (connection routed to terminal). Not possible for autotransformers.			
<b>4AM transformers</b>																		
0.025	0.023	0.02	--	0.19	12 V to 690 V, with cULus max. 600 V (excluding tappings)	B	<b>4AM23 4</b>		X	X	X	X	X	0.110	0.600	1.900		
0.04	0.036	0.03	--			B	<b>4AM26 4</b>		X	X	X	X	X	X	0.150	0.800	2.100	
0.063	0.057	0.05	0.19			B	<b>4AM32 4</b>		X	X	X	X	X	Without	0.240	1.400	2.700	
0.1	0.09	0.08	0.31			B	<b>4AM34 4</b>		X	X	X	X	X	Without	0.260	2.000	3.300	
0.16	0.145	0.128	0.49			B	<b>4AM38 4</b>		X	X	X	X	X	Without	0.320	2.700	5.600	
0.25	0.225	0.2	0.85			B	<b>4AM40 4</b>		X	X	X	X	X	Without	0.590	3.700	6.600	
0.315	0.268	0.236	1.12			B	<b>4AM43 4</b>		X	X	X	X	X	X	0.670	4.500	7.400	
0.4	0.34	0.3	1.44			B	<b>4AM46 4</b>		X	X	X	X	X	X	1.100	5.400	8.300	
0.5	0.425	0.375	2			B	<b>4AM48 4</b>		X	X	X	X	X	X	1.100	7.000	9.900	
0.63	0.535	0.475	2.35			B	<b>4AM52 4</b>		X	X	X	X	X	--	1.700	7.900	10.800	
0.8	0.68	0.6	3.4	B	<b>4AM55 4</b>		X	X	X	X	X	--	1.900	11.000	13.900			
1	0.85	0.75	5	B	<b>4AM57 4</b>		X	X	X	X	X	--	2.000	14.000	16.900			
1.6	1.36	1.2	7.3	B	<b>4AM61 4</b>		X	X	X	X	X	--	4.100	19.000	26.700			
2	1.7	1.5	9.7	B	<b>4AM64 4</b>		X	X	X	X	X	--	4.700	23.000	30.700			
2.5	2.13	1.88	13.3	B	<b>4AM65 4</b>		X	X	X	X	X	--	6.400	29.000	36.700			
<b>4AT transformers</b>																		
4	3.6	3.15	17.8	0.19	24 V to 690 V, with cULus max. 600 V (excluding tappings)	B	<b>4AT30 3</b>		X	X	X	X	--	6.600	27.000	34.700		
5	4.5	4	19			B	<b>4AT36 1</b>		X	X	X	X	X	--	5.200	32.000	39.700	
6.3	5.6	5	24.5			B	<b>4AT36 3</b>		X	X	X	X	X	--	8.700	37.000	44.700	
8	7.1	6.3	31.1	B	<b>4AT39 1</b>		X	X	X	X	X	--	9.900	45.000	58.900			
10	9	8	36.4	B	<b>4AT39 3</b>		X	X	X	X	X	--	17.000	52.000	65.900			
11.2	10	--	48.3	B	<b>4AT43 0</b>		X	X	X	X	X	--	12.000	62.000	75.900			
12.5	11.2	--	53.8	B	<b>4AT43 1</b>		X	X	X	X	X	--	15.000	65.200	79.100			
14	12.5	--	58.7	B	<b>4AT43 2</b>		X	X	X	X	X	--	19.000	69.300	83.200			
16	14	--	81.2	B	<b>4AT45 0</b>		X	X	X	X	X	--	16.000	83.200	127.200			

Additional prices for degree of protection IP00, IP23 and IP54, see page 10/48.

Before ordering, please ask for the complete Order No. (see page 10/4 for the inquiry/order address).

X = Additional price

-- = Not available

<sup>1)</sup> For autotransformers the type rating is always quoted.

<sup>2)</sup> The specified rating is a typical maximum short-time rating at p.f. = 0.5.

<sup>3)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>4)</sup> Types 4AM32 4 to 4AM40 4 have integrated standard rail mounting.

<sup>5)</sup> The actual copper weight is listed in the price notice or the quotation; the transformer weight and total weight is reduced/increased by the difference.

# Single-Phase Transformers

## 4AM, 4AT Safety, Isolating, Control and Mains Transformers

### 4AM, 4AT transformers with selectable voltages

Options for the enclosures of single-phase transformers  
≤ 16 kVA in degree of protection IP00, IP23 or IP54



Order No. stem	Rated power with degree of protection <sup>2)</sup>			Short-time rating $P_{short.}$ kVA	Additional price for the options			PU (UNIT, SET, M)	PS*	PG
	IP00, standard version $P_n$ kVA	IP23 $P_n$ kVA	IP54 $P_n$ kVA		Degree of protection IP00, standard version	Degree of protection IP23	Degree of protection IP54			
<b>4AM transformers</b>										
4AM23 4	0.025	0.023	0.02	--	Without	X	X	1	1 unit	104
4AM26 4	0.04	0.036	0.032	--	Without	X	X	1	1 unit	104
4AM32 4	0.063	0.057	0.05	0.19	Without	X	X	1	1 unit	104
4AM34 4	0.1	0.09	0.08	0.31	Without	X	X	1	1 unit	104
4AM38 4	0.16	0.145	0.128	0.49	Without	X	X	1	1 unit	104
4AM40 4	0.25	0.225	0.2	0.85	Without	X	X	1	1 unit	104
4AM43 4	0.315	0.268	0.236	1.12	Without	X	X	1	1 unit	104
4AM46 4	0.4	0.34	0.3	1.44	Without	X	X	1	1 unit	104
4AM48 4	0.5	0.425	0.375	2	Without	X	X	1	1 unit	104
4AM52 4	0.63	0.535	0.475	2.35	Without	X	X	1	1 unit	104
4AM55 4	0.8	0.68	0.6	3.4	Without	X	X	1	1 unit	104
4AM57 4	1	0.85	0.75	5	Without	X	X	1	1 unit	104
4AM61 4	1.6	1.36	1.2	7.3	Without	X	X	1	1 unit	104
4AM64 4	2	1.7	1.5	9.7	Without	X	X	1	1 unit	104
4AM65 4	2.5	2.13	1.875	13.3	Without	X	X	1	1 unit	104
<b>4AT transformers</b>										
4AT30 3	4	3.6	3.15	17.8	Without	X	X	1	1 unit	104
4AT36 1	5	4.5	4	19	Without	X	X	1	1 unit	104
4AT36 3	6.3	5.6	5	24.5	Without	X	X	1	1 unit	104
4AT39 1	8	7.1	6.3	31.1	Without	X	X	1	1 unit	104
4AT39 3	10	9	8	36.4	Without	X	X	1	1 unit	104
4AT43 0	11.2	10	--	48.3	Without	X	--	1	1 unit	104
4AT43 1	12.5	11.2	--	53.8	Without	X	--	1	1 unit	104
4AT43 2	14	12.5	--	58.7	Without	X	--	1	1 unit	104
4AT45 0	16	14	--	81.2	Without	X	--	1	1 unit	104

X = Additional price

-- = Not available

<sup>1)</sup> Exception: The enclosure for the 4AT45 0 transformers is not **csus** approved.

<sup>2)</sup> For autotransformers the type rating is always quoted.

### Options

- Cage Clamp terminal; up to 24 V, without additional price
- Fuse terminal:  
Device protection fuses for secondary-side short-circuit and overload protection with rated currents ≤ 6.3 A and a rated voltage of max. 440 V AC can be mounted on the 4AM transformers; screw or Cage Clamp terminals possible.  
Additional price on request.
- Rating plates made of metal:  
One separately packed rating plate made of metal can be supplied per 4AM and 4AT transformer.  
Additional price on request.
- Deviations from the standard vector groups Ii0 or Ia0 for autotransformers must be specified when ordering.



# Single-Phase Transformers

## 4BT Power Transformers

### General data

#### Overview

##### *4BT.. transformers*

With the right transformer, the right voltage will be available at any conditions.

Our transformers are the right choice for each application: They work reliably, safely and worldwide under a wide range of different conditions.

The 4BT single-phase power transformers can be configured as matching, auto- or converter transformers according to DIN VDE 0532-6 with selectable input and output voltages.

Our transformers provide optimal protection through high permissible ambient temperatures of up to 55 °C.

#### Benefits

- **UL** approvals for the USA and Canada: can be used worldwide without any problems
- Comprehensive type spectrum: rapid availability

#### Application

4BT single-phase power transformers are implemented in industrial and building systems and control and distribution and are used to adapt the locally available mains voltage to the operational voltage of the system or its components. They also limit the possible short-circuit currents.

*Power transformers* with electrical isolation or designed as *autotransformers* are used for adapting machines and systems to the local voltages that are available at the installation site.

Furthermore *power transformers* can be used with electrical devices, for example in communications, medical engineering and domestic appliances. In drive systems, special *converter transformers* are used for voltage matching and *autotransformers* are used with infeed/regenerative feedback modules.

# Single-Phase Transformers

## 4BT Power Transformers

### 4BT transformers with selectable voltages

#### Overview

- 4BT transformers configured as matching, auto-<sup>1)</sup> or converter transformers according to DIN VDE 0532-6 with selectable input and output voltages in the performance range from 18 kVA to 250 kVA from 100 V to 1000 V and additional options
- **cFLus**<sup>2)</sup>
- $t_a = 55\text{ °C/H}$
- Standard vector group: li0, for autotransformer: la0

<sup>1)</sup> For autotransformers the type rating is always quoted.

<sup>2)</sup> **cFLus** approvals for voltages  $\leq 600\text{ V}$  (excluding tappings) and degree of protection IP00.



4BT

#### Selection and ordering data

PU (UNIT, SET, M) = 1  
 PS = 1 unit (You can order this quantity or a multiple thereof.)  
 PG = 104

**cFLus**<sup>1)</sup>

Rated power <sup>2)</sup> $P_n$ with degree of protection		Selectable rated voltages $U_{1N}, U_{2N}$	DT <sup>4)</sup>	Order No. stem	Basic price per PU	Additional price for standard options					Cu weight <sup>5)</sup> per PU approx. kg	Transformer weight <sup>5)</sup> per PU approx. kg	Total weight <sup>5)</sup> including enclosure per PU approx. kg
IP00, IP20, IP23 <sup>3)</sup>	IP23					Two tappings in the range $\pm 5\%$ of the rated input or output voltage for constant power	One tapping on the input or output side for falling power	One additional separate winding on the input or output side	Shield winding (connection routed to terminal). Not possible for autotransformers.	Installation in protective enclosures IP20, IP23			
kVA	kVA												
18	16	100 V to 1000 V, with <b>cFLus</b> $\leq 600\text{ V}$ (excluding tappings)	C	<b>4BT45 0</b>	X	X	X	X	X	18.500	85.000	129.000	
20	18		C	<b>4BT47 0</b>	X	X	X	X	16.000	104.000	148.000		
22.5	20		C	<b>4BT47 1</b>	X	X	X	X	20.500	106.000	150.000		
25	22.5		C	<b>4BT47 2</b>	X	X	X	X	26.500	112.000	156.000		
28	25		D	<b>4BT51 0</b>	X	X	X	X	25.000	109.000	160.000		
31.5	28	D	<b>4BT52 0</b>	X	X	X	X	26.500	122.000	173.000			
35.5	32	D	<b>4BT53 0</b>	X	X	X	X	28.000	135.000	186.000			
40	36		D	<b>4BT54 0</b>	X	X	X	X	26.000	159.000	220.000		
45	40.5		D	<b>4BT54 1</b>	X	X	X	X	33.000	166.000	227.000		
50	45		D	<b>4BT55 0</b>	X	X	X	X	34.000	183.000	244.000		
63	56.5		D	<b>4BT56 0</b>	X	X	X	X	45.000	214.000	275.000		
80	72		D	<b>4BT58 1</b>	X	X	X	X	46.000	259.000	364.000		
100	90	D	<b>4BT59 0</b>	X	X	X	X	60.500	302.000	407.000			
125	112.5	D	<b>4BT60 1</b>	X	X	X	X	78.000	355.000	460.000			
160	144		D	<b>4BT62 1</b>	X	X	X	X	100.000	444.000	579.000		
200	180		D	<b>4BT63 0</b>	X	X	X	X	129.000	523.000	658.000		
250	225		D	<b>4BT65 0</b>	X	X	X	X	134.500	646.000	781.000		

Before ordering, please ask for the complete Order No. (see page 10/4 for the inquiry/order address).

X = Additional price

<sup>1)</sup> **cFLus** approvals for voltages  $\leq 600\text{ V}$  (excluding tappings) and degree of protection IP00.

<sup>2)</sup> For autotransformers the type rating is always quoted.

<sup>3)</sup> No power reduction for ambient temperatures  $\leq 40\text{ °C}$ .

<sup>4)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>5)</sup> The actual copper weight is listed in the price notice or the quotation; the transformer weight and total weight is reduced/increased by the difference.

#### Options

- Thermistor transformer protection for warning and/or disconnection:  
The 4BT power transformers can be supplied with thermistor transformer protection for warning and/or disconnection, see [Technical Information LV 1 T "General Data" --> "Design"](#).

PG = 104

For transformer Type	Additional price for		
	Warning	Disconnection	Warning and disconnection
<b>4BT</b>	X	X	X

X = Additional price

- Rating plates made of metal:  
One separately packed rating plate made of metal can be supplied per 4BT transformer.

Additional price on request.

- Deviations from the standard vector groups li0 or la0 for autotransformers must be specified when ordering.

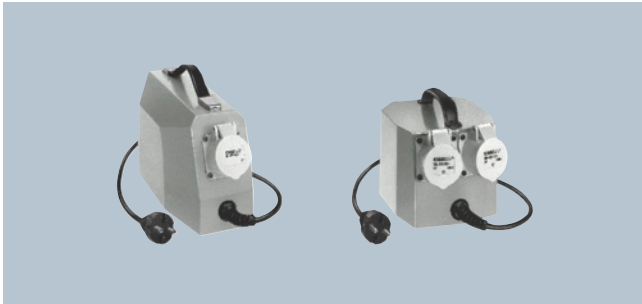
Further versions with higher outputs up to 1250 kVA are available on request.

# Single-Phase Transformers

## 4AX22, 4AX23 Safety Transformers

Resin-enclosed

### Overview



4AX22 12 (left) and 4AX22 14 (right)



4AX23 11

The 4AX22 and 4AX23 safety transformers are completely resin-enclosed.

Protection class II (For more safety transformers, see "Safety, Isolating, Control and Mains Transformers")

- Vector group li0
- Conditionally short-circuit resistant
- $t_a = 40 \text{ °C/E}$

#### 4AX22 portable version

- Highly rugged
- Degree of protection IP44
- EN 61558-2-6, -2-9
- 

#### 4AX23 stationary version

- Degrees of protection IP44 and IP65
- EN 61558-2-6
- 



### Application

Safety transformers are used in applications in which protective measures for safety extra-low voltage are necessary.

The electrical loads used must comply with safety class III.

#### 4AX22 portable version

Application areas Handheld lamps, electrical tools.

#### 4AX23 stationary version

Application areas swimming pools, wet grinding machines, electrical tools.

# Single-Phase Transformers

## 4AX22, 4AX23 Safety Transformers

Resin-enclosed

## Selection and ordering data

Rated input voltage  $U_{1N}$  230 V,  
rated output voltage  $U_{2N}$  24 V or 42 V

PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this  
quantity or a multiple thereof.)  
PG = 114

Rated power $P_n$	Voltage rise during no-load operation $u_A$	G fuse link, slow <sup>1)</sup>	Number of CEE socket outlets (output plug also sup- plied, loose)	Rated output voltage $U_{2N}$	DT <sup>2)</sup>	Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	%	A		V				kg	kg
<b>Portable versions, degree of protection IP44</b>									
0.1	7.5	0.63	1	24	C	<b>4AX22 10-0BK10</b>		0.600	4.200
0.1	7.5	0.63	1	42	C	<b>4AX22 10-1BK10</b>		0.600	4.200
0.2	6.5	1.25	2	24	C	<b>4AX22 12-0CK10</b>		1.000	7.000
0.2	6.5	1.25	2	42	C	<b>4AX22 12-1CK10</b>		1.000	7.000
0.4	5	2.5	1	42	C	<b>4AX22 14-1BK10</b>		1.700	10.000
0.63	4	4	1	42	C	<b>4AX22 15-1BK10</b>		3.100	12.800
1	3	5	1	42	C	<b>4AX22 16-1BK10</b>		3.900	19.500
<b>Stationary versions</b>									
<i>Output side without CEE socket outlet, degree of protection IP65</i>									
0.1	8	0.63	--	24	C	<b>4AX23 10-0AL10</b>		0.600	3.200
0.16	7	1	--	24	C	<b>4AX23 11-0AL10</b>		0.800	4.800
0.25	5	1.6	--	24	C	<b>4AX23 13-0AL10</b>		1.100	7.000
0.4	4	2.5	--	24	C	<b>4AX23 14-0AL10</b>		1.700	10.600
0.63	3	4	--	24	C	<b>4AX23 15-0AL10</b>		3.100	13.500
1	3	6.3	--	24	C	<b>4AX23 16-0AL10</b>		3.900	19.000
0.1	8	0.63	--	42	C	<b>4AX23 10-1AL10</b>		0.600	3.200
0.16	7	1	--	42	C	<b>4AX23 11-1AL10</b>		0.800	4.800
0.25	5	1.6	--	42	C	<b>4AX23 13-1AL10</b>		1.100	7.000
0.4	4	2.5	--	42	C	<b>4AX23 14-1AL10</b>		1.700	10.600
0.63	3	4	--	42	C	<b>4AX23 15-1AL10</b>		3.100	13.500
1	3	6.3	--	42	C	<b>4AX23 16-1AL10</b>		3.900	19.000
<i>Output side with CEE socket outlet, degree of protection IP44</i>									
0.1	8	0.63	1	24	C	<b>4AX23 10-0BL10</b>		0.600	3.200
0.16	7	1	1	24	C	<b>4AX23 11-0BL10</b>		0.800	4.800
0.25	5	1.6	1	24	C	<b>4AX23 13-0BL10</b>		1.100	7.000
0.4	4	2.5	1	24	C	<b>4AX23 14-0BL10</b>		1.700	10.600
0.63	3	4	1	24	C	<b>4AX23 15-0BL10</b>		3.100	13.500
0.1	8	0.63	1	42	C	<b>4AX23 10-1BL10</b>		0.600	3.200
0.16	7	1	1	42	C	<b>4AX23 11-1BL10</b>		0.800	4.800
0.25	5	1.6	1	42	C	<b>4AX23 13-1BL10</b>		1.100	7.000
0.4	4	2.5	1	42	C	<b>4AX23 14-1BL10</b>		1.700	10.600
0.63	3	4	1	42	C	<b>4AX23 15-1BL10</b>		3.100	13.500

<sup>1)</sup> G fuse link according to DIN VDE 0820 Part 22/IEC 60127,  
from 2,5 kVA D01 (E14) fuse link according to VDE 0636/IEC 60269.

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Single-Phase Transformers

## 4AX24 Isolating Transformers



Resin-enclosed

### Overview



4AX24 13

The 4AX24 portable isolating transformers are completely resin-enclosed.

- EN 61558-2-4
- , 
- $t_a = 40\text{ °C/E}$
- Degree of protection IP44
- Protection class II (For more safety transformers, see "Safety, Isolating, Control and Mains Transformers")
- Vector group II0
- Conditionally short-circuit resistant



### Application

Isolating transformers are used in applications in which protective isolation is necessary.

Application areas Test bays, laboratories, workshops, electrical tools.

### Selection and ordering data

Rated input voltage  $U_{1N}$  230 V, rated output voltage  $U_{2N}$  230 V



Rated power $P_n$	Voltage rise during no-load operation $u_A$	G fuse link, slow <sup>1)</sup>	Number of SCHUKO socket outlets	DT <sup>2)</sup>	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
kVA	%	A								kg	kg
0.16	7	1	1	C	<b>4AX24 11-2BK10</b>		1	1 unit	114	0.800	5.000
0.25	6	1.6	1	C	<b>4AX24 13-2BK10</b>		1	1 unit	114	1.100	7.500
0.4	5	2.5	1	C	<b>4AX24 14-2BK10</b>		1	1 unit	114	1.700	10.000
0.63	4	3.15	1	C	<b>4AX24 15-2BK10</b>		1	1 unit	114	3.100	12.500
1	3	5	1	C	<b>4AX24 16-2BK10</b>		1	1 unit	114	3.900	19.500
1.6	3.3	8	1	C	<b>4AX24 17-2BK10</b>		1	1 unit	114	5.600	23.000
2.5	3	10	1	C	<b>4AX24 18-2BK10</b>		1	1 unit	114	9.800	38.600

<sup>1)</sup> G fuse link according to DIN VDE 0820 Part 22/IEC 60127, from 2,5 kVA D01 (E14) fuse link according to VDE 0636/IEC 60269.

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Single-Phase Transformers

## 4AT Isolating Transformers

For supply of medical premises

### Overview

- According to EN 61558-2-15
- Protection class I
- With static shield between the primary and secondary winding with insulated connection
- With thermistor transformer protection for warning of thermal overload<sup>1)</sup>
- With central tap for insulation monitoring
- Short-circuit voltage  $u_z \leq 3\%$
- No-load supply current  $i_0 \leq 3\%$
- Inrush current max.  $8 \times I_{1N}$
- $t_a = 55\text{ °C/H}$



4AT special version for medical premises

<sup>1)</sup> 3RN tripping units for PTC sensors must be ordered separately, see Chapter 7, "Monitoring and Control Devices".

### Selection and ordering data



Rated power $P_n$	Rated rise during no-load operation $u_A$	Rated voltages		Secondary-side short-circuit protection for the transformer with motor starter protector		DT <sup>1)</sup>	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
		Input $U_{1N}$	Output $U_{2N}$	Type	Set value								
kVA	%	V	V		A							kg	kg
<b>Degree of protection IP00</b>													
2.5	3.6	230	230-115	3RV10 21-4CA10	21	C	<b>4AT30 12-1TA71-3MA0</b>		1	1 unit	104	7.400	25.500
3.15	3.6	230	230-115	3RV10 31-4EA10	26	C	<b>4AT36 02-1TA71-3MA0</b>		1	1 unit	104	6.800	33.000
4	3.6	230	230-115	3RV10 31-4EA10	29	C	<b>4AT36 12-1TA71-3MA0</b>		1	1 unit	104	9.400	36.000
5	3.6	230	230-115	3RV10 31-4FA10	36	C	<b>4AT39 02-1TA71-3MA0</b>		1	1 unit	104	9.700	45.000
6.3	3.6	230	230-115	3RV10 31-4GA10	40	C	<b>4AT39 12-1TA71-3MA0</b>		1	1 unit	104	13.800	49.000
8	3.7	230	230-115	3RV10 41-4JA10	49	C	<b>4AT43 02-1TA71-3MA0</b>		1	1 unit	104	12.600	63.000
<b>Degree of protection IP23</b>													
2.5	3.6	230	230-115	3RV10 21-4CA10	21	C	<b>4AT30 12-1TA71-3MC0</b>		1	1 unit	104	7.400	33.500
3.15	3.6	230	230-115	3RV10 31-4EA10	26	D	<b>4AT36 02-1TA71-3MC0</b>		1	1 unit	104	6.800	41.000
4	3.7	230	230-115	3RV10 31-4EA10	29	D	<b>4AT36 12-1TA71-3MC0</b>		1	1 unit	104	9.400	44.000
5	3.6	230	230-115	3RV10 31-4FA10	36	D	<b>4AT39 02-1TA71-3MC0</b>		1	1 unit	104	9.700	59.000
6.3	3.9	230	230-115	3RV10 31-4GA10	40	C	<b>4AT39 12-1TA71-3MC0</b>		1	1 unit	104	13.800	63.000
8	3.7	230	230-115	3RV10 41-4JA10	49	C	<b>4AT43 02-1TA71-3MC0</b>		1	1 unit	104	12.400	77.000

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Single-Phase Transformers

## 4FL, 4FK Voltage Regulators

4FL voltage regulators, transformer type

### Overview



4FL

- According to DIN VDE 0552
- Degree of protection IP21
- $t_a = 40\text{ °C/E}$

### Application

The 4FL transformer-type voltage regulators are used as voltage stabilizers on supply systems with varying voltages. On the output of the voltage regulator, a constant voltage is available for the load which creates a constant machine performance which is immune to variations in the supply system.

### Selection and ordering data

Rated voltage: *PRI = SEC: 230 V, 50 Hz to 60 Hz*

Settling time	Rated power $P_n$	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
s	kVA							kg	kg
<b>Control range for input voltage: +10 % to -10 %</b>									
1.5	2.2	D	<b>4FL13 00-2CN</b>		1	1 unit	114	1.300	25.000
1.5	3.6	X	<b>4FL16 00-2CN</b>		1	1 unit	114	1.600	30.000
1.5	5.6	X	<b>4FL22 00-2CN</b>		1	1 unit	114	2.800	35.000
1.5	8.5	D	<b>4FL26 00-2CN</b>		1	1 unit	114	3.500	40.000
1.5	11.5	D	<b>4FL29 00-2CN</b>		1	1 unit	114	5.100	45.000
1.5	17	X	<b>4FL33 00-2CN</b>		1	1 unit	114	8.500	80.000
1.5	22.5	X	<b>4FL37 00-2CN</b>		1	1 unit	114	10.800	90.000
1.5	31.5	X	<b>4FL41 00-2CN</b>		1	1 unit	114	12.600	110.000
1.5	63	X	<b>4FL48 00-2CN</b>		1	1 unit	114	32.200	220.000
<b>Control range for input voltage: +15 % to -15 %</b>									
1.5	1.5	X	<b>4FL11 10-2CN</b>		1	1 unit	114	1.300	25.000
1.5	2.2	D	<b>4FL13 10-2CN</b>		1	1 unit	114	1.600	30.000
1.5	3.6	X	<b>4FL16 10-2CN</b>		1	1 unit	114	2.800	35.000
1.5	5.3	X	<b>4FL21 10-2CN</b>		1	1 unit	114	3.500	40.000
1.5	7	X	<b>4FL24 10-2CN</b>		1	1 unit	114	5.100	45.000
1.5	11	D	<b>4FL28 10-2CN</b>		1	1 unit	114	8.500	80.000
1.5	14	X	<b>4FL30 10-2CN</b>		1	1 unit	114	10.800	90.000
1.5	20	X	<b>4FL34 10-2CN</b>		1	1 unit	114	12.600	110.000
1.5	40	X	<b>4FL44 10-2CN</b>		1	1 unit	114	32.200	220.000
<b>Control range for input voltage: +20 % to -20 %</b>									
1.5	1	D	<b>4FL10 20-2CN</b>		1	1 unit	114	1.300	25.000
1.5	1.6	X	<b>4FL12 20-2CN</b>		1	1 unit	114	1.600	30.000
1.5	2.5	D	<b>4FL14 20-2CN</b>		1	1 unit	114	2.800	35.000
1.5	3.8	X	<b>4FL17 20-2CN</b>		1	1 unit	114	3.500	40.000
1.5	5	X	<b>4FL20 20-2CN</b>		1	1 unit	114	5.100	45.000
1.5	7.5	D	<b>4FL25 20-2CN</b>		1	1 unit	114	8.500	80.000
1.5	10	X	<b>4FL27 20-2CN</b>		1	1 unit	114	10.800	90.000
1.5	14	X	<b>4FL30 20-2CN</b>		1	1 unit	114	12.600	110.000
1.5	28	X	<b>4FL39 20-2CN</b>		1	1 unit	114	32.200	220.000

Further versions with higher outputs up to 2000 kVA, voltages up to 1 kV and control ranges up to  $\pm 30\%$  are available on request.

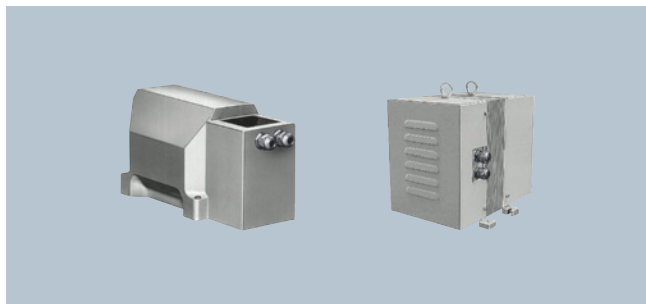
\* You can order this quantity or a multiple thereof.

# Single-Phase Transformers

## 4FL, 4FK Voltage Regulators

### 4FK voltage regulators, magnetic type

#### Overview



4FK31 to 4FK34 (left) and 4FK35 to 4FK38 (right)

- According to EN 61558-2-12
- With sinusoidal output voltage
- Settling time 40 ms
- $t_a = 40\text{ °C}$



#### Application

The 4FK magnetic-type voltage regulators are used for loads that are supplied with alternating voltage and that are particularly sensitive to voltage variations.

#### Selection and ordering data



Rated power $P_n$	Rated voltage PRI/SEC	Degree of protection, version	Control accuracy in input voltage range		PRI fuse external, gL/gG operational class	Distortion factor at $P_n$ and $U_{IN}$	DT	Order No. or Order No. stem <sup>1)</sup>	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
			From +10 % to -10 %	From +10 % to -20 %										
kVA	V		%	%	A	%								
<b>Adapted to rated frequency 50 Hz and p.f. = 1<sup>2)</sup></b>														
0.12	230/230	IP65, resin-enclosed $t_a = 40\text{ °C/E}$	±1.5	±2	4	< 4	D	<b>4FK31 10-0AL10</b>		1	1 unit	114	1.700	9.000
0.25			±1	±2	6	< 3	D	<b>4FK32 10-0AL10</b>		1	1 unit	114	4.600	15.000
0.5			6		6		D	<b>4FK33 10-0AL10</b>		1	1 unit	114	6.000	21.000
0.75			10		10		D	<b>4FK34 10-0AL10</b>		1	1 unit	114	8.000	27.000
1		IP20, sheet-steel enclosure $t_a = 40\text{ °C/B}$	±1	±2	10	< 3	D	<b>4FK35 10-0AG10</b>		1	1 unit	114	9.600	32.000
1.5			16		16		D	<b>4FK36 10-0AG10</b>		1	1 unit	114	14.000	42.000
2			16		16		D	<b>4FK37 10-0AG10</b>		1	1 unit	114	18.000	52.000
2.5			20		20		D	<b>4FK38 10-0AG10</b>		1	1 unit	114	22.000	68.000
3.15	400/230	IP21, sheet-steel enclosure $t_a = 40\text{ °C/F}$	±1	±2	16	< 3	D	<b>4FK39 10-1AN10</b>		1	1 unit	114	26.000	95.000
4			20		20		D	<b>4FK40 10-1AN10</b>		1	1 unit	114	29.000	105.000
5			20		20		D	<b>4FK41 10-1AN10</b>		1	1 unit	114	35.000	120.000
6.3			35		35		X	<b>4FK42 10-1AN10</b>		1	1 unit	114	48.000	145.000
10			63		63		X	<b>4FK44 10-1AN10</b>		1	1 unit	114	74.000	210.000
<b>With selectable input and output voltages Adapted to rated frequency 50 Hz or 60 Hz and p.f. = 1 to 0.5<sup>3)</sup></b>														
0.12	select-able from 110 to 500	IP65, resin-enclosed $t_a = 40\text{ °C/E}$	±1.5	±2	--	< 4	D	<b>4FK31</b>		1	1 unit	114	1.700	9.000
0.25			±1	±2	--	< 3	D	<b>4FK32</b>		1	1 unit	114	4.600	15.000
0.5			6		6		D	<b>4FK33</b>		1	1 unit	114	6.000	21.000
0.75			10		10		D	<b>4FK34</b>		1	1 unit	114	8.000	27.000
1		IP20, sheet-steel enclosure $t_a = 40\text{ °C/B}$	±1	±2	--	< 3	D	<b>4FK35</b>		1	1 unit	114	9.600	32.000
1.5			16		16		D	<b>4FK36</b>		1	1 unit	114	14.000	42.000
2			16		16		D	<b>4FK37</b>		1	1 unit	114	18.000	52.000
2.5			20		20		D	<b>4FK38</b>		1	1 unit	114	22.000	68.000
3.15		IP21, sheet-steel enclosure $t_a = 40\text{ °C/F}$	±1	±2	--	< 3	D	<b>4FK39</b>		1	1 unit	114	26.000	95.000
4			20		20		D	<b>4FK40</b>		1	1 unit	114	29.000	105.000
5			20		20		D	<b>4FK41</b>		1	1 unit	114	35.000	120.000
6.3			35		35		X	<b>4FK42</b>		1	1 unit	114	48.000	145.000
10			63		63		X	<b>4FK44</b>		1	1 unit	114	74.000	210.000

<sup>1)</sup> The Order No. stem is completed to the full order number when placing an order (see page 10/4 for the inquiry/order address).

<sup>2)</sup> The units in the performance range 3.15 kVA to 10 kVA have an additional connection for p.f. = 0.8.

<sup>3)</sup> Adjustment for only one p.f. value of 1 to 0.5 is possible.



# Three-Phase Transformers

## 4AP, 4AU Safety, Isolating, Control and Mains Transformers

General data

### Overview

#### 4AP./4AU. transformers

With the right transformer, the right voltage will be available at any conditions.

Our transformers are the right choice for each application: They work reliably, safely and worldwide under a wide range of different conditions.

The transformers are configured in user-friendly combinations as isolating, control and mains transformers according to EN 61558-2-4, -2-2, -2-1, or as safety, control and mains transformers according to EN 61558-2-6, -2-2, -2-1, or as autotransformers according to EN 61558-2-13 with selectable input and output voltages.

#### Note:

*Mains transformers with  $\leq 50\text{ V}$  on the output side are, in the case of SIRIUS transformers, always designed as safety transformers.*

Our transformers provide optimal protection through high permissible ambient temperatures up to 40 °C or 55 °C, a high short-time rating in the case of control transformers, fuseless construction and due to their safety standard "Safety inside" EN 61558.

### Benefits

- High short-time rating of the SIRIUS transformers: lower transformer rated power for a large number of contactors
- Suitable for "fuseless construction": The small inrush current means that "circuit breakers for motor protection" can also be used on the primary side
- **cULus** approvals for the USA and Canada: can be used worldwide without any problems
- Comprehensive type spectrum supplied from stock: rapid availability

### Application

In industrial machines, process engineering, heating and air-conditioning equipment, etc., for supplying control and signaling circuits, when:

- Several electromagnetic loads (e.g. contactors) have to be controlled
- Control and signaling devices are used outside the control cabinet
- The operational voltage for the loads differs from the available voltage level
- Voltage matching for machines and installations with electrical isolation or as an autotransformer.

Generally for voltage matching of electrical devices, e.g. in communications, medical engineering and domestic appliances.

# Three-Phase Transformers

## 4AP, 4AU Safety, Isolating, Control and Mains Transformers

### 4AP, 4AU isolating, control and mains transformers

#### Overview

- According to EN 61558-2-4, -2-2, -2-1
- **cULus**
- 4AP:  $t_a = 40\text{ °C/B}$ , 4AU:  $t_a = 55\text{ °C/H}$
- AC 50/60 Hz
- Degree of protection IP00, IP23 and IP54



4AP20 (left) and 4AU (right)

#### Selection and ordering data

##### In two-voltage version

Rated input voltage  $U_{1N}$  3 AC  $\nabla$  500-400 V/ $\Delta$  289-230 V,  
rated output voltage  $U_{2N}$  3 AC  $\nabla$  400 V/ $\Delta$  230 V



Rated power $P_n$	Short-time rating $P_{short.}$	DT <sup>2)</sup>	Screw terminals <sup>3)</sup> / flat connectors <sup>3)</sup>		PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.	Price per PU				kg	kg
<b>Degree of protection IP00</b>									
0.63	1.8		4AP20 42-8BC40-0HA0		1	1 unit	104	2.700	6.900
1	3.5		4AP21 42-8BC40-0HA0		1	1 unit	104	3.300	10.800
1.6	6.9		4AP25 42-8BC40-0HA0		1	1 unit	104	4.100	18.100
2.5	11		4AP27 42-8BC40-0HA0		1	1 unit	104	4.800	25.800
4	20		4AP30 42-8BC40-0HA0		1	1 unit	104	9.200	38.500
6.3	28		4AU30 32-8BC40-0HA0		1	1 unit	104	13.500	43.000
8	32		4AU36 12-8BC40-0HA0		1	1 unit	104	10.000	53.000
10	39		4AU36 32-8BC40-0HA0		1	1 unit	104	16.300	60.000
12.5	49		4AU39 12-8BC40-0HA0		1	1 unit	104	18.000	73.000
16	55		4AU39 32-8BC40-0HA0		1	1 unit	104	32.800	89.000
<b>Degree of protection IP23</b>									
0.57	1.8	B	4AP20 42-8BC40-0HC0		1	1 unit	104	2.700	14.600
0.9	3.5	B	4AP21 42-8BC40-0HC0		1	1 unit	104	3.300	18.500
1.44	6.9	B	4AP25 42-8BC40-0HC0		1	1 unit	104	4.100	25.800
2.25	11	B	4AP27 42-8BC40-0HC0		1	1 unit	104	4.800	33.500
3.2	20	B	4AP30 42-8BC40-0HC0		1	1 unit	104	9.200	46.200
5	28	B	4AU30 32-8BC40-0HC0		1	1 unit	104	13.500	50.700
6.3	32	B	4AU36 12-8BC40-0HC0		1	1 unit	104	10.000	66.900
8	39	B	4AU36 32-8BC40-0HC0		1	1 unit	104	16.300	73.900
10	49	B	4AU39 12-8BC40-0HC0		1	1 unit	104	18.000	86.900
12.5	55	B	4AU39 32-8BC40-0HC0		1	1 unit	104	32.800	102.000
<b>Degree of protection IP54</b>									
0.44	1.8	B	4AP20 42-8BC40-0HD0		1	1 unit	104	2.700	14.600
0.8	3.5	B	4AP21 42-8BC40-0HD0		1	1 unit	104	3.300	18.500
1.12	6.9	B	4AP25 42-8BC40-0HD0		1	1 unit	104	4.100	25.800
2	11	B	4AP27 42-8BC40-0HD0		1	1 unit	104	4.800	33.500
2.8	20	B	4AP30 42-8BC40-0HD0		1	1 unit	104	9.200	46.200
4.4	28	B	4AU30 32-8BC40-0HD0		1	1 unit	104	13.500	50.700
5.6	32	B	4AU36 12-8BC40-0HD0		1	1 unit	104	10.000	66.900
7.1	39	B	4AU36 32-8BC40-0HD0		1	1 unit	104	16.300	73.900
8.8	49	B	4AU39 12-8BC40-0HD0		1	1 unit	104	18.000	86.900
11.2	55	B	4AU39 32-8BC40-0HD0		1	1 unit	104	32.800	102.000

<sup>1)</sup> For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>3)</sup> The 4AU transformers are only supplied with screw terminals.

# Three-Phase Transformers

## 4AP, 4AU Safety, Isolating, Control and Mains Transformers

4AP, 4AU isolating, control and mains transformers

### In multi-voltage version

Rated input voltage  $U_{1N}$

3 AC  $\nabla$  520-500-480-460-440-420-400-380-360 V/ $\Delta$  300-289-277-266-254-240-230-220-208 V,

rated output voltage  $U_{2N}$  3 AC  $\nabla$  400 V/ $\Delta$  230 V



Rated power $P_n$	Short-time rating $P_{short.}$ <sup>1)</sup>	DT <sup>2)</sup>	Screw terminals <sup>3)</sup> / flat connectors <sup>3)</sup>		PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
			Order No.	Price per PU					
kVA	kVA						kg	kg	
<b>Degree of protection IP00</b>									
0.63	1.8	B	4AP20 42-8CC40-0HA0		1	1 unit	104	2.800	7.100
1	3.5	B	4AP21 42-8CC40-0HA0		1	1 unit	104	2.900	10.400
1.6	6.9	B	4AP25 42-8CC40-0HA0		1	1 unit	104	4.800	19.700
2.5	11	B	4AP27 42-8CC40-0HA0		1	1 unit	104	5.200	27.000
4	20	B	4AP30 42-8CC40-0HA0		1	1 unit	104	9.400	39.400
6.3	28	B	4AU30 32-8CC40-0HA0		1	1 unit	104	16.000	47.000
8	32	B	4AU36 12-8CC40-0HA0		1	1 unit	104	13.000	56.000
10	39	B	4AU36 32-8CC40-0HA0		1	1 unit	104	21.000	65.000
12.5	49	B	4AU39 12-8CC40-0HA0		1	1 unit	104	24.000	78.000
16	55	B	4AU39 32-8CC40-0HA0		1	1 unit	104	43.000	99.000
<b>Degree of protection IP23</b>									
0.57	1.8	B	4AP20 42-8CC40-0HC0		1	1 unit	104	2.800	14.800
0.9	3.5	B	4AP21 42-8CC40-0HC0		1	1 unit	104	2.900	17.900
1.44	6.9	B	4AP25 42-8CC40-0HC0		1	1 unit	104	4.800	27.400
2.25	11	B	4AP27 42-8CC40-0HC0		1	1 unit	104	5.200	34.700
3.2	20	B	4AP30 42-8CC40-0HC0		1	1 unit	104	9.400	47.100
5	28	B	4AU30 32-8CC40-0HC0		1	1 unit	104	16.000	54.700
6.3	32	B	4AU36 12-8CC40-0HC0		1	1 unit	104	13.000	69.900
8	39	B	4AU36 32-8CC40-0HC0		1	1 unit	104	21.000	78.900
10	49	B	4AU39 12-8CC40-0HC0		1	1 unit	104	24.000	91.900
12.5	55	B	4AU39 32-8CC40-0HC0		1	1 unit	104	43.000	112.900
<b>Degree of protection IP54</b>									
0.44	1.8	B	4AP20 42-8CC40-0HD0		1	1 unit	104	2.800	14.800
0.8	3.5	B	4AP21 42-8CC40-0HD0		1	1 unit	104	2.900	18.100
1.12	6.9	B	4AP25 42-8CC40-0HD0		1	1 unit	104	4.800	27.000
2	11	B	4AP27 42-8CC40-0HD0		1	1 unit	104	5.200	34.700
2.8	20	B	4AP30 42-8CC40-0HD0		1	1 unit	104	9.400	47.100
4.4	28	B	4AU30 32-8CC40-0HD0		1	1 unit	104	16.000	54.700
5.6	32	B	4AU36 12-8CC40-0HD0		1	1 unit	104	13.000	69.900
7.1	39	B	4AU36 32-8CC40-0HD0		1	1 unit	104	21.000	78.900
8.8	49	B	4AU39 12-8CC40-0HD0		1	1 unit	104	24.000	91.900
11.2	55	B	4AU39 32-8CC40-0HD0		1	1 unit	104	43.000	112.900

1) For p.f. = 0.5 and  $U_2 = 0.95 \times U_{2N}$ .

2) The delivery time class depends on the quantity, see page 10/4 "Options".

3) The 4AU transformers are only supplied with screw terminals.

# Three-Phase Transformers

## 4AP, 4AU Safety, Isolating, Control and Mains Transformers

### 4AP isolating and mains transformers

#### Overview

- According to EN 61558-2-4, -2-1
- **cULus**
- $t_a = 40\text{ °C/B}$
- AC 50/60 Hz
- Degree of protection IP00, IP23 and IP54



4AP17



#### Selection and ordering data

##### In two-voltage version

Rated input voltage  $U_{1N}$  3 AC  $\nabla$  500-400 V/ $\Delta$  289-230 V,  
rated output voltage  $U_{2N}$  3 AC  $\nabla$  400 V/ $\Delta$  230 V

**cULus**,

Rated power $P_n$ kVA	DT <sup>1)</sup>	Screw terminals/ flat connectors		PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx. kg	Total weight per PU approx. kg
		Order No.	Price per PU					
<b>Degree of protection IP00</b>								
0.16	▶	<b>4AP17 42-8BC40-0HA0</b>		1	1 unit	104	0.800	3.100
0.25	▶	<b>4AP18 42-8BC40-0HA0</b>		1	1 unit	104	1.300	4.200
0.4	▶	<b>4AP19 42-8BC40-0HA0</b>		1	1 unit	104	1.200	5.400
<b>Degree of protection IP23</b>								
0.14	B	<b>4AP17 42-8BC40-0HC0</b>		1	1 unit	104	0.800	6.000
0.23	B	<b>4AP18 42-8BC40-0HC0</b>		1	1 unit	104	1.300	7.100
0.36	B	<b>4AP19 42-8BC40-0HC0</b>		1	1 unit	104	1.200	8.300
<b>Degree of protection IP54</b>								
0.11	B	<b>4AP17 42-8BC40-0HD0</b>		1	1 unit	104	0.800	6.000
0.2	B	<b>4AP18 42-8BC40-0HD0</b>		1	1 unit	104	1.300	7.100
0.32	B	<b>4AP19 42-8BC40-0HD0</b>		1	1 unit	104	1.200	8.300

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4AP, 4AU Safety, Isolating, Control and Mains Transformers

### 4AP, 4AU transformers with selectable voltages

#### Overview

- 4AP and 4AU transformers configured as isolating, control and mains transformers according to EN 61558-2-4, -2-2, -2-1, or as safety, control and mains transformers according to EN 61558-2-6, -2-2, -2-1, or as autotransformers according to EN 61558-2-13 with selectable input and output voltages in the performance range from 0.025 kVA to 16 kVA (for autotransformers the type rating is always quoted) and additional options

#### • cULus

- 4AP:  $t_a = 40\text{ }^\circ\text{C/B}$ , 4AU:  $t_a = 55\text{ }^\circ\text{C/H}$
- Standard vector group: Dyn5, for autotransformer: Ya0



4AP20 (left) and 4AU (right)



#### Selection and ordering data



PU (UNIT, SET, M) = 1  
 PS = 1 unit (You can order this quantity or a multiple thereof.)  
 PG = 104

Rated power <sup>1)</sup> $P_n$ with degree of protection			Short-time rating <sup>2)</sup> $P_{short}$	Selectable rated voltages $U_{1N}$ , $U_{2N}$	DT <sup>3)</sup>	Order No. stem	Basic price per PU	Additional price for standard options				Cu weight <sup>5)</sup> per PU approx.	Transformer weight <sup>5)</sup> per PU approx.	Total weight <sup>5)</sup> including enclosure per PU approx.		
IP00	IP23	IP54						Two tappings in the range $\pm 5\%$ of the rated input or output voltage for constant power	One tapping on the input or output side for falling power; neutral point connected to terminal <sup>4)</sup>	One additional separate winding on the input or output side	Shield winding (connection routed to terminal). This is not possible for autotransformers.				kg	kg
kVA	kVA	kVA	kVA													
<b>4AP transformers</b>																
0.16	0.14	0.11	--	12 V ... 690 V,	B	<b>4AP17 4</b>		X	X	X	X	0.700	3.100	6.000		
0.25	0.23	0.2	--	(line-to-line voltage $U_L$ ) Y or $\Delta$	B	<b>4AP18 4</b>		X	X	X	X	1.250	4.400	7.300		
0.4	0.35	0.32	--	for cULus	B	<b>4AP19 4</b>		X	X	X	X	1.100	5.400	8.300		
0.63	0.57	0.44	1.8	max. 600 V	B	<b>4AP20 4</b>		X	X	X	X	2.800	7.100	14.800		
1	0.9	0.8	3.5	(excluding tap-pings)	B	<b>4AP21 4</b>		X	X	X	X	3.300	10.700	18.400		
1.6	1.44	1.12	6.9		B	<b>4AP25 4</b>		X	X	X	X	3.700	17.700	25.400		
2.5	2.25	2	11		B	<b>4AP27 4</b>		X	X	X	X	4.800	23.800	31.500		
4	3.2	2.8	20		B	<b>4AP30 4</b>		X	X	X	X	8.000	34.300	42.000		
5	4	3.5	25		B	<b>4AP30 5</b>		X	X	X	X	12.700	39.700	47.400		
<b>4AU transformers</b>																
6.3	5	4.4	28	24 V ... 690 V,	B	<b>4AU30 3</b>		X	X	X	X	11.600	42.000	49.700		
8	6.8	5.6	31.5	(line-to-line voltage $U_L$ ) Y or $\Delta$	B	<b>4AU36 1</b>		X	X	X	X	10.000	52.000	65.900		
10	8	7.1	39	for cULus	B	<b>4AU36 3</b>		X	X	X	X	15.000	57.000	70.900		
12.5	10	8.8	49	max. 600 V	B	<b>4AU39 1</b>		X	X	X	X	17.200	67.000	80.900		
16	12.5	11.2	55	(excluding tap-pings)	B	<b>4AU39 3</b>		X	X	X	X	30.000	81.000	94.900		

Additional prices for degree of protection IP00, IP23 and IP54 see page 10/62.

Before ordering, please ask for the complete Order No. (see page 10/4 for the inquiry/order address).

X = Additional price

1) For autotransformers the type rating is always quoted.

2) The specified rating is a typical maximum short-time rating at p.f. = 0.5.

3) The delivery time class depends on the quantity, see page 10/4 "Options".

4) With three-phase transformers, an additional price is charged for neutral point connected to terminal  $1/3$ .

5) The actual copper weight is listed in the price notice or the quotation; the transformer weight and total weight is reduced/increased by the difference.

# Three-Phase Transformers

## 4AP, 4AU Safety, Isolating, Control and Mains Transformers

### 4AP, 4AU transformers with selectable voltages

Options for the enclosures of three-phase transformers ≤ 16 kVA in degree of protection IP00, IP23 or IP54



Order No. stem	Rated power <sup>1)</sup>			Short-time rating $P_{shortt.}$	Additional price for the options			PU (UNIT, SET, M)	PS*	PG
	Degree of protection IP00, standard version $P_n$ kVA	Degree of protection IP23 $P_n$ kVA	Degree of protection IP54 $P_n$ kVA		Degree of protection IP00, standard version	Degree of protection IP23	Degree of protection IP54			
<b>4AP transformers</b>										
<b>4AP17 4</b>	0.16	0.14	0.11	--	Without	X	X	1	1 unit	104
<b>4AP18 4</b>	0.25	0.23	0.2	--	Without	X	X	1	1 unit	104
<b>4AP19 4</b>	0.4	0.35	0.32	--	Without	X	X	1	1 unit	104
<b>4AP20 4</b>	0.63	0.57	0.44	1.8	Without	X	X	1	1 unit	104
<b>4AP21 4</b>	1	0.9	0.8	3.5	Without	X	X	1	1 unit	104
<b>4AP25 4</b>	1.6	1.44	1.12	6.9	Without	X	X	1	1 unit	104
<b>4AP27 4</b>	2.5	2.25	2	11	Without	X	X	1	1 unit	104
<b>4AP30 4</b>	4	3.2	2.8	20	Without	X	X	1	1 unit	104
<b>4AP30 5</b>	5	4	3.5	25	Without	X	X	1	1 unit	104
<b>4AU transformers</b>										
<b>4AU30 3</b>	6.3	5	4.4	28	Without	X	X	1	1 unit	104
<b>4AU36 1</b>	8	6.8	5.6	31.5	Without	X	X	1	1 unit	104
<b>4AU36 3</b>	10	8	7.1	39	Without	X	X	1	1 unit	104
<b>4AU39 1</b>	12.5	10	8.8	49	Without	X	X	1	1 unit	104
<b>4AU39 3</b>	16	12.5	11.2	55	Without	X	X	1	1 unit	104

Please inquire about other transformer enclosures.

X = Additional price

<sup>1)</sup> For autotransformers the type rating is always quoted.

### Options

- Rating plates made of metal:  
One separately packed rating plate made of metal can be supplied per 4AP transformer.  
Additional price on request.
- Deviations from the standard vector groups Dyn5 or Ya0 for autotransformers must be specified when ordering.

# Three-Phase Transformers

## 4BU Power Transformers

General data

### Overview

#### 4BU.. transformers

With the right transformer, the right voltage will be available at any conditions.

Our transformers are the right choice for each application: They work reliably, safely and worldwide under a wide range of different conditions.

4BU three-phase power transformers

- are available as matching transformers with one input/output voltage according to DIN VDE 0532-6
- and can be configured as matching, auto- or converter transformers according to DIN VDE 0532-6 with selectable input and output voltages.

Our transformers provide optimal protection through high permissible ambient temperatures of up to 40 °C or 55 °C.

### Benefits

- **UL** approvals for the USA and Canada: can be used worldwide without any problems
- Comprehensive type spectrum: rapid availability

### Application

4BU three-phase power transformers are implemented in industrial and building systems and control and distribution and are used to adapt the locally available mains voltage to the operational voltage of the system or its components. They also limit the possible short-circuit currents.

*Power transformers* with electrical isolation or designed as *autotransformers* are used for adapting machines and systems to the local voltages that are available at the installation site.

Furthermore *power transformers* can be used with electrical devices, for example in communications, medical engineering and domestic appliances. In drive systems, special *converter transformers* are used for voltage matching and *autotransformers* are used with infeed/regenerative feedback modules.

# Three-Phase Transformers

## 4BU Power Transformers

### 4BU matching transformers

#### Overview

- DIN VDE 0532-6
- AC 50/60 Hz
- $\Delta$  or  $Y$  (see "Selection and ordering data")
- $t_a = 40$  °C/H or  $t_a = 55$  °C/H (see "Selection and ordering data")
- Degree of protection IP00



4BU

#### Selection and ordering data

With one input voltage

**Rated input voltage**  
 $U_{1N}$  3 AC 400 V, 400 V  $\pm 5$  %,   
**rated output voltage**  $U_{2N}$  3 AC  $Y$  208 V,   
 $t_a = 40$  °C/H

PU (UNIT, SET, M) = 1  
 PS = 1 unit (You can order this quantity or a multiple thereof.)  
 PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Vector group Yyn0				
		Order No.	Price per PU					Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V</b>												
18	B	4BU43 32-2AR10-2DA0			20.700	110.000	B	4BU43 32-2AR10-2CA0			20.700	110.000
20	C	4BU43 42-2AR10-2DA0			25.000	103.000	C	4BU43 42-2AR10-2CA0			25.000	103.000
22.5	C	4BU43 52-2AR10-2DA0			33.000	112.000	C	4BU43 52-2AR10-2CA0			33.000	112.000
25	D	4BU45 32-2AR10-2DA0			24.000	129.000	D	4BU45 32-2AR10-2CA0			26.320	140.000
28	D	4BU45 42-2AR10-2DA0			31.500	136.000	C	4BU45 42-2AR10-2CA0			31.500	136.000
31.5	D	4BU47 32-2AR10-2DA0			28.000	163.000	D	4BU47 32-2AR10-2CA0			28.000	163.000
35.5	D	4BU47 42-2AR10-2DA0			37.000	171.000	D	4BU47 42-2AR10-2CA0			37.000	171.000
40	D	4BU47 52-2AR10-2DA0			48.500	184.000	D	4BU47 52-2AR10-2CA0			48.500	184.000
45	D	4BU52 32-2AR10-2DA0			45.000	181.000	D	4BU52 32-2AR10-2CA0			45.000	181.000
50	D	4BU53 32-2AR10-2DA0			48.000	201.000	D	4BU53 32-2AR10-2CA0			48.000	201.000
56	D	4BU53 42-2AR10-2DA0			62.000	214.000	D	4BU53 42-2AR10-2CA0			62.000	214.000
63	D	4BU54 32-2AR10-2DA0			43.000	258.000	D	4BU54 32-2AR10-2CA0			43.000	258.000
71	D	4BU54 42-2AR10-2DA0			56.000	271.000	D	4BU54 42-2AR10-2CA0			56.000	271.000
80	D	4BU55 32-2AR10-2DA0			60.000	301.000	D	4BU55 32-2AR10-2CA0			60.000	301.000
91	D	4BU56 32-2AR10-2DA0			63.000	338.000	D	4BU56 32-2AR10-2CA0			63.000	338.000
100	D	4BU56 42-2AR10-2DA0			78.000	352.000	D	4BU56 42-2AR10-2CA0			78.000	352.000
112	X	4BU58 32-2AR10-2DA0			56.000	420.000	X	4BU58 32-2AR10-2CA0			56.000	420.000
125	X	4BU58 42-2AR10-2DA0			70.500	434.000	X	4BU58 42-2AR10-2CA0			70.500	434.000
140	X	4BU58 52-2AR10-2DA0			90.000	454.000	X	4BU58 52-2AR10-2CA0			90.000	454.000
160	X	4BU59 32-2AR10-2DA0			96.000	508.000	X	4BU59 32-2AR10-2CA0			96.000	508.000
180	X	4BU60 32-2AR10-2DA0			98.000	571.000	X	4BU60 32-2AR10-2CA0			98.000	571.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V <math>\pm 5</math> %</b>												
18	C	4BU43 32-5AR10-2DA0			21.000	101.000	C	4BU43 32-5AR10-2CA0			21.000	101.000
20	C	4BU43 42-5AR10-2DA0			27.000	105.000	C	4BU43 42-5AR10-2CA0			27.000	105.000
22.5	C	4BU43 52-5AR10-2DA0			36.000	115.000	C	4BU43 52-5AR10-2CA0			36.000	115.000
25	D	4BU45 32-5AR10-2DA0			26.000	131.000	D	4BU45 32-5AR10-2CA0			26.000	131.000
28	C	4BU45 42-5AR10-2DA0			34.000	139.000	D	4BU45 42-5AR10-2CA0			34.000	139.000
31.5	D	4BU47 32-5AR10-2DA0			30.500	166.000	D	4BU47 32-5AR10-2CA0			30.500	166.000
35.5	D	4BU47 42-5AR10-2DA0			40.000	174.000	D	4BU47 42-5AR10-2CA0			40.000	174.000
40	D	4BU47 52-5AR10-2DA0			52.500	188.000	D	4BU47 52-5AR10-2CA0			52.500	188.000
45	D	4BU52 32-5AR10-2DA0			49.000	185.000	D	4BU52 32-5AR10-2CA0			49.000	185.000
50	D	4BU53 32-5AR10-2DA0			52.000	205.000	D	4BU53 32-5AR10-2CA0			52.000	205.000
56	D	4BU53 42-5AR10-2DA0			67.000	219.000	D	4BU53 42-5AR10-2CA0			67.000	219.000
63	D	4BU54 32-5AR10-2DA0			46.500	262.000	D	4BU54 32-5AR10-2CA0			46.500	262.000
71	D	4BU54 42-5AR10-2DA0			60.500	276.000	D	4BU54 42-5AR10-2CA0			60.500	276.000
80	D	4BU55 32-5AR10-2DA0			65.000	306.000	D	4BU55 32-5AR10-2CA0			65.000	306.000
91	D	4BU56 32-5AR10-2DA0			68.000	343.000	D	4BU56 32-5AR10-2CA0			68.000	343.000
100	D	4BU56 42-5AR10-2DA0			84.500	359.000	D	4BU56 42-5AR10-2CA0			84.500	359.000
112	X	4BU58 32-5AR10-2DA0			60.500	425.000	X	4BU58 32-5AR10-2CA0			60.500	425.000
125	X	4BU58 42-5AR10-2DA0			76.500	440.000	X	4BU58 42-5AR10-2CA0			76.500	440.000
140	X	4BU58 52-5AR10-2DA0			97.500	462.000	X	4BU58 52-5AR10-2CA0			97.500	462.000
160	X	4BU59 32-5AR10-2DA0			104.000	516.000	X	4BU59 32-5AR10-2CA0			104.000	516.000
180	X	4BU60 32-5AR10-2DA0			106.000	579.000	X	4BU60 32-5AR10-2CA0			106.000	579.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".



# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers

With one input voltage

Rated input voltage

 $U_{1N}$  3 AC 440 V, 440 V  $\pm 5\%$ ,rated output voltage  $U_{2N}$  3 AC  $\nabla$  208 V, $t_a = 40$  °C/H

PU (UNIT, SET, M) = 1

PS = 1 unit (You can order this quantity or a multiple thereof.)

PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5				DT <sup>1)</sup>	Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V</b>										
18	C	4BU43 32-2CR10-2DA0		19.500	99.000	C	4BU43 32-2CR10-2CA0		19.500	99.000
20	C	4BU43 42-2CR10-2DA0		25.000	103.000	C	4BU43 42-2CR10-2CA0		25.000	103.000
22.5	C	4BU43 52-2CR10-2DA0		33.000	112.000	C	4BU43 52-2CR10-2CA0		33.000	112.000
25	D	4BU45 32-2CR10-2DA0		24.000	129.000	D	4BU45 32-2CR10-2CA0		24.000	129.000
28	D	4BU45 42-2CR10-2DA0		31.500	136.000	D	4BU45 42-2CR10-2CA0		31.500	136.000
31.5	D	4BU47 32-2CR10-2DA0		28.000	163.000	D	4BU47 32-2CR10-2CA0		28.000	163.000
35.5	D	4BU47 42-2CR10-2DA0		37.000	171.000	D	4BU47 42-2CR10-2CA0		37.000	171.000
40	D	4BU47 52-2CR10-2DA0		48.500	184.000	D	4BU47 52-2CR10-2CA0		48.500	184.000
45	D	4BU52 32-2CR10-2DA0		45.000	181.000	D	4BU52 32-2CR10-2CA0		45.000	181.000
50	D	4BU53 32-2CR10-2DA0		48.000	201.000	D	4BU53 32-2CR10-2CA0		48.000	201.000
56	D	4BU53 42-2CR10-2DA0		62.000	214.000	D	4BU53 42-2CR10-2CA0		62.000	214.000
63	D	4BU54 32-2CR10-2DA0		43.000	258.000	D	4BU54 32-2CR10-2CA0		43.000	258.000
71	D	4BU54 42-2CR10-2DA0		56.000	271.000	D	4BU54 42-2CR10-2CA0		56.000	271.000
80	D	4BU55 32-2CR10-2DA0		60.000	301.000	D	4BU55 32-2CR10-2CA0		60.000	301.000
91	D	4BU56 32-2CR10-2DA0		63.000	338.000	D	4BU56 32-2CR10-2CA0		63.000	338.000
100	D	4BU56 42-2CR10-2DA0		78.000	352.000	D	4BU56 42-2CR10-2CA0		78.000	352.000
112	X	4BU58 32-2CR10-2DA0		56.000	420.000	X	4BU58 32-2CR10-2CA0		56.000	420.000
125	X	4BU58 42-2CR10-2DA0		70.500	434.000	X	4BU58 42-2CR10-2CA0		70.500	434.000
140	X	4BU58 52-2CR10-2DA0		90.000	454.000	X	4BU58 52-2CR10-2CA0		90.000	454.000
160	X	4BU59 32-2CR10-2DA0		96.000	508.000	X	4BU59 32-2CR10-2CA0		96.000	508.000
180	X	4BU60 32-2CR10-2DA0		98.000	571.000	X	4BU60 32-2CR10-2CA0		98.000	571.000

<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V <math>\pm 5\%</math></b>										
18	C	4BU43 32-5CR10-2DA0		21.000	101.000	C	4BU43 32-5CR10-2CA0		21.000	101.000
20	C	4BU43 42-5CR10-2DA0		27.000	105.000	C	4BU43 42-5CR10-2CA0		27.000	105.000
22.5	C	4BU43 52-5CR10-2DA0		36.000	115.000	C	4BU43 52-5CR10-2CA0		36.000	115.000
25	D	4BU45 32-5CR10-2DA0		26.000	131.000	D	4BU45 32-5CR10-2CA0		26.000	131.000
28	D	4BU45 42-5CR10-2DA0		34.000	139.000	D	4BU45 42-5CR10-2CA0		34.000	139.000
31.5	D	4BU47 32-5CR10-2DA0		30.500	166.000	D	4BU47 32-5CR10-2CA0		30.500	166.000
35.5	D	4BU47 42-5CR10-2DA0		40.000	174.000	D	4BU47 42-5CR10-2CA0		40.000	174.000
40	D	4BU47 52-5CR10-2DA0		52.500	188.000	D	4BU47 52-5CR10-2CA0		52.500	188.000
45	D	4BU52 32-5CR10-2DA0		49.000	185.000	D	4BU52 32-5CR10-2CA0		49.000	185.000
50	D	4BU53 32-5CR10-2DA0		52.000	205.000	D	4BU53 32-5CR10-2CA0		52.000	205.000
56	D	4BU53 42-5CR10-2DA0		67.000	219.000	D	4BU53 42-5CR10-2CA0		67.000	219.000
63	D	4BU54 32-5CR10-2DA0		46.500	262.000	D	4BU54 32-5CR10-2CA0		46.500	262.000
71	D	4BU54 42-5CR10-2DA0		60.500	276.000	D	4BU54 42-5CR10-2CA0		60.500	276.000
80	D	4BU55 32-5CR10-2DA0		65.000	306.000	D	4BU55 32-5CR10-2CA0		65.000	306.000
91	D	4BU56 32-5CR10-2DA0		68.000	343.000	D	4BU56 32-5CR10-2CA0		68.000	343.000
100	D	4BU56 42-5CR10-2DA0		84.500	359.000	D	4BU56 42-5CR10-2CA0		84.500	359.000
112	X	4BU58 32-5CR10-2DA0		60.500	425.000	X	4BU58 32-5CR10-2CA0		60.500	425.000
125	X	4BU58 42-5CR10-2DA0		76.500	440.000	X	4BU58 42-5CR10-2CA0		76.500	440.000
140	X	4BU58 52-5CR10-2DA0		97.500	462.000	X	4BU58 52-5CR10-2CA0		97.500	462.000
160	X	4BU59 32-5CR10-2DA0		104.000	516.000	X	4BU59 32-5CR10-2CA0		104.000	516.000
180	X	4BU60 32-5CR10-2DA0		106.000	579.000	X	4BU60 32-5CR10-2CA0		106.000	579.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

### 4BU matching transformers

With one input voltage

Rated input voltage

$U_{1N}$  3 AC 480 V, 480 V  $\pm 5\%$ ,

rated output voltage  $U_{2N}$  3 AC  $\nabla$  208 V,

$t_a = 40$  °C/H

PU (UNIT, SET, M) = 1

PS = 1 unit (You can order this quantity or a multiple thereof.)

PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Vector group Yyn0				
		Order No.	Price per PU					Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V</b>												
18	C	4BU43 32-2ER10-2DA0			19.500	99.000	C	4BU43 32-2ER10-2CA0			19.500	99.000
20	C	4BU43 42-2ER10-2DA0			25.000	103.000	C	4BU43 42-2ER10-2CA0			25.000	103.000
22.5	C	4BU43 52-2ER10-2DA0			33.000	112.000	C	4BU43 52-2ER10-2CA0			33.000	112.000
25	D	4BU45 32-2ER10-2DA0			24.000	129.000	D	4BU45 32-2ER10-2CA0			24.000	129.000
28	D	4BU45 42-2ER10-2DA0			31.500	136.000	D	4BU45 42-2ER10-2CA0			31.500	136.000
31.5	C	4BU47 32-2ER10-2DA0			28.000	163.000	D	4BU47 32-2ER10-2CA0			28.000	163.000
35.5	D	4BU47 42-2ER10-2DA0			37.000	171.000	D	4BU47 42-2ER10-2CA0			37.000	171.000
40	D	4BU47 52-2ER10-2DA0			48.500	184.000	D	4BU47 52-2ER10-2CA0			48.500	184.000
45	D	4BU52 32-2ER10-2DA0			45.000	181.000	D	4BU52 32-2ER10-2CA0			45.000	181.000
50	D	4BU53 32-2ER10-2DA0			48.000	201.000	D	4BU53 32-2ER10-2CA0			48.000	201.000
56	D	4BU53 42-2ER10-2DA0			62.000	214.000	D	4BU53 42-2ER10-2CA0			62.000	214.000
63	D	4BU54 32-2ER10-2DA0			43.000	258.000	D	4BU54 32-2ER10-2CA0			43.000	258.000
71	D	4BU54 42-2ER10-2DA0			56.000	271.000	D	4BU54 42-2ER10-2CA0			56.000	271.000
80	D	4BU55 32-2ER10-2DA0			60.000	301.000	D	4BU55 32-2ER10-2CA0			60.000	301.000
91	D	4BU56 32-2ER10-2DA0			63.000	338.000	D	4BU56 32-2ER10-2CA0			63.000	338.000
100	D	4BU56 42-2ER10-2DA0			78.000	352.000	D	4BU56 42-2ER10-2CA0			78.000	352.000
112	X	4BU58 32-2ER10-2DA0			56.000	420.000	X	4BU58 32-2ER10-2CA0			56.000	420.000
125	X	4BU58 42-2ER10-2DA0			70.500	434.000	X	4BU58 42-2ER10-2CA0			70.500	434.000
140	X	4BU58 52-2ER10-2DA0			90.000	454.000	X	4BU58 52-2ER10-2CA0			90.000	454.000
160	X	4BU59 32-2ER10-2DA0			96.000	508.000	X	4BU59 32-2ER10-2CA0			96.000	508.000
180	X	4BU60 32-2ER10-2DA0			98.000	571.000	X	4BU60 32-2ER10-2CA0			98.000	571.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V <math>\pm 5\%</math></b>												
18	C	4BU43 32-5ER10-2DA0			21.000	101.000	C	4BU43 32-5ER10-2CA0			21.000	101.000
20	C	4BU43 42-5ER10-2DA0			27.000	105.000	C	4BU43 42-5ER10-2CA0			27.000	105.000
22.5	C	4BU43 52-5ER10-2DA0			36.000	115.000	C	4BU43 52-5ER10-2CA0			36.000	115.000
25	D	4BU45 32-5ER10-2DA0			26.000	131.000	D	4BU45 32-5ER10-2CA0			26.000	131.000
28	D	4BU45 42-5ER10-2DA0			34.000	139.000	D	4BU45 42-5ER10-2CA0			34.000	139.000
31.5	D	4BU47 32-5ER10-2DA0			30.500	166.000	D	4BU47 32-5ER10-2CA0			30.500	166.000
35.5	D	4BU47 42-5ER10-2DA0			40.000	174.000	D	4BU47 42-5ER10-2CA0			40.000	174.000
40	D	4BU47 52-5ER10-2DA0			52.500	188.000	D	4BU47 52-5ER10-2CA0			52.500	188.000
45	D	4BU52 32-5ER10-2DA0			49.000	185.000	D	4BU52 32-5ER10-2CA0			49.000	185.000
50	D	4BU53 32-5ER10-2DA0			52.000	205.000	D	4BU53 32-5ER10-2CA0			52.000	205.000
56	D	4BU53 42-5ER10-2DA0			67.000	219.000	D	4BU53 42-5ER10-2CA0			67.000	219.000
63	D	4BU54 32-5ER10-2DA0			46.500	262.000	D	4BU54 32-5ER10-2CA0			46.500	262.000
71	D	4BU54 42-5ER10-2DA0			60.500	276.000	D	4BU54 42-5ER10-2CA0			60.500	276.000
80	D	4BU55 32-5ER10-2DA0			65.000	306.000	D	4BU55 32-5ER10-2CA0			65.000	306.000
91	D	4BU56 32-5ER10-2DA0			68.000	343.000	D	4BU56 32-5ER10-2CA0			68.000	343.000
100	D	4BU56 42-5ER10-2DA0			84.500	359.000	D	4BU56 42-5ER10-2CA0			84.500	359.000
112	X	4BU58 32-5ER10-2DA0			60.500	425.000	X	4BU58 32-5ER10-2CA0			60.500	425.000
125	X	4BU58 42-5ER10-2DA0			76.500	440.000	X	4BU58 42-5ER10-2CA0			76.500	440.000
140	X	4BU58 52-5ER10-2DA0			97.500	462.000	X	4BU58 52-5ER10-2CA0			97.500	462.000
160	X	4BU59 32-5ER10-2DA0			104.000	516.000	X	4BU59 32-5ER10-2CA0			104.000	516.000
180	X	4BU60 32-5ER10-2DA0			106.000	579.000	X	4BU60 32-5ER10-2CA0			106.000	579.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers

With one input voltage

Rated input voltage

 $U_{1N}$  3 AC 400 V, 400 V  $\pm 5\%$ ,rated output voltage  $U_{2N}$  3 AC  $\nabla$  400 V, $t_a = 40$  °C/H

PU (UNIT, SET, M) = 1

PS = 1 unit (You can order this quantity or a multiple thereof.)

PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5				DT <sup>1)</sup>	Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V</b>										
18	B	4BU43 32-2AA20-2DA0		20.220	110.000	C	4BU43 32-2AA20-2CA0		19.500	99.000
20	B	4BU43 42-2AA20-2DA0		26.500	103.000	C	4BU43 42-2AA20-2CA0		25.000	103.000
22.5	C	4BU43 52-2AA20-2DA0		33.000	112.000	C	4BU43 52-2AA20-2CA0		33.000	112.000
25	C	4BU45 32-2AA20-2DA0		24.000	129.000	D	4BU45 32-2AA20-2CA0		24.000	129.000
28	C	4BU45 42-2AA20-2DA0		31.500	136.000	D	4BU45 42-2AA20-2CA0		31.500	136.000
31.5	D	4BU47 32-2AA20-2DA0		28.000	163.000	D	4BU47 32-2AA20-2CA0		28.000	163.000
35.5	D	4BU47 42-2AA20-2DA0		37.000	171.000	D	4BU47 42-2AA20-2CA0		37.000	171.000
40	C	4BU47 52-2AA20-2DA0		48.500	184.000	C	4BU47 52-2AA20-2CA0		48.500	184.000
45	C	4BU52 32-2AA20-2DA0		50.600	200.000	D	4BU52 32-2AA20-2CA0		45.000	181.000
50	D	4BU53 32-2AA20-2DA0		48.000	201.000	D	4BU53 32-2AA20-2CA0		48.000	201.000
56	C	4BU53 42-2AA20-2DA0		66.000	214.000	D	4BU53 42-2AA20-2CA0		62.000	214.000
63	C	4BU54 32-2AA20-2DA0		43.000	258.000	C	4BU54 32-2AA20-2CA0		49.500	290.000
71	D	4BU54 42-2AA20-2DA0		56.000	271.000	D	4BU54 42-2AA20-2CA0		56.000	271.000
80	C	4BU55 32-2AA20-2DA0		60.000	310.000	D	4BU55 32-2AA20-2CA0		60.000	301.000
91	D	4BU56 32-2AA20-2DA0		63.000	338.000	D	4BU56 32-2AA20-2CA0		63.000	338.000
100	D	4BU56 42-2AA20-2DA0		78.000	352.000	D	4BU56 42-2AA20-2CA0		78.000	352.000
112	X	4BU58 32-2AA20-2DA0		56.000	420.000	X	4BU58 32-2AA20-2CA0		56.000	420.000
125	D	4BU58 42-2AA20-2DA0		70.500	440.000	X	4BU58 42-2AA20-2CA0		70.500	434.000
140	X	4BU58 52-2AA20-2DA0		90.000	454.000	X	4BU58 52-2AA20-2CA0		90.000	454.000
160	X	4BU59 32-2AA20-2DA0		96.000	508.000	X	4BU59 32-2AA20-2CA0		96.000	508.000
180	X	4BU60 32-2AA20-2DA0		98.000	571.000	X	4BU60 32-2AA20-2CA0		98.000	571.000

<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V <math>\pm 5\%</math></b>										
18	B	4BU43 32-5AA20-2DA0		21.000	101.000	C	4BU43 32-5AA20-2CA0		21.000	101.000
20	C	4BU43 42-5AA20-2DA0		28.000	105.000	C	4BU43 42-5AA20-2CA0		27.000	105.000
22.5	C	4BU43 52-5AA20-2DA0		36.000	115.000	C	4BU43 52-5AA20-2CA0		36.000	115.000
25	C	4BU45 32-5AA20-2DA0		29.100	131.000	D	4BU45 32-5AA20-2CA0		26.000	131.000
28	C	4BU45 42-5AA20-2DA0		36.000	139.000	C	4BU45 42-5AA20-2CA0		34.000	139.000
31.5	C	4BU47 32-5AA20-2DA0		32.500	166.000	D	4BU47 32-5AA20-2CA0		30.500	166.000
35.5	D	4BU47 42-5AA20-2DA0		40.000	174.000	D	4BU47 42-5AA20-2CA0		40.000	174.000
40	C	4BU47 52-5AA20-2DA0		54.000	188.000	C	4BU47 52-5AA20-2CA0		52.500	188.000
45	D	4BU52 32-5AA20-2DA0		49.000	185.000	D	4BU52 32-5AA20-2CA0		49.000	185.000
50	D	4BU53 32-5AA20-2DA0		52.000	205.000	D	4BU53 32-5AA20-2CA0		52.000	205.000
56	C	4BU53 42-5AA20-2DA0		66.080	230.000	D	4BU53 42-5AA20-2CA0		67.000	219.000
63	C	4BU54 32-5AA20-2DA0		46.500	262.000	D	4BU54 32-5AA20-2CA0		46.500	262.000
71	D	4BU54 42-5AA20-2DA0		60.500	276.000	C	4BU54 42-5AA20-2CA0		60.500	276.000
80	D	4BU55 32-5AA20-2DA0		65.000	306.000	D	4BU55 32-5AA20-2CA0		65.000	306.000
91	D	4BU56 32-5AA20-2DA0		68.000	343.000	D	4BU56 32-5AA20-2CA0		68.000	343.000
100	D	4BU56 42-5AA20-2DA0		84.500	359.000	D	4BU56 42-5AA20-2CA0		84.500	359.000
112	X	4BU58 32-5AA20-2DA0		60.500	425.000	X	4BU58 32-5AA20-2CA0		60.500	425.000
125	D	4BU58 42-5AA20-2DA0		76.500	440.000	X	4BU58 42-5AA20-2CA0		76.500	440.000
140	X	4BU58 52-5AA20-2DA0		97.500	462.000	X	4BU58 52-5AA20-2CA0		97.500	462.000
160	X	4BU59 32-5AA20-2DA0		104.000	516.000	D	4BU59 32-5AA20-2CA0		104.000	516.000
180	X	4BU60 32-5AA20-2DA0		106.000	579.000	X	4BU60 32-5AA20-2CA0		106.000	579.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

### 4BU matching transformers

With one input voltage

Rated input voltage

$U_{1N}$  3 AC 440 V, 440 V  $\pm 5\%$ ,

rated output voltage  $U_{2N}$  3 AC  $\nabla$  400 V,

$t_a = 40$  °C/H

PU (UNIT, SET, M) = 1

PS = 1 unit (You can order this quantity or a multiple thereof.)

PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Vector group Yyn0				
		Order No.	Price per PU					Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	
<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V</b>												
18	C	4BU43 32-2CA20-2DA0			19.500	99.000	C	4BU43 32-2CA20-2CA0			19.500	99.000
20	C	4BU43 42-2CA20-2DA0			25.000	103.000	C	4BU43 42-2CA20-2CA0			25.000	103.000
22.5	C	4BU43 52-2CA20-2DA0			33.000	112.000	C	4BU43 52-2CA20-2CA0			33.000	112.000
25	D	4BU45 32-2CA20-2DA0			24.000	129.000	D	4BU45 32-2CA20-2CA0			24.000	129.000
28	D	4BU45 42-2CA20-2DA0			31.500	136.000	D	4BU45 42-2CA20-2CA0			31.500	136.000
31.5	D	4BU47 32-2CA20-2DA0			28.000	163.000	D	4BU47 32-2CA20-2CA0			28.000	163.000
35.5	C	4BU47 42-2CA20-2DA0			37.000	171.000	D	4BU47 42-2CA20-2CA0			37.000	171.000
40	D	4BU47 52-2CA20-2DA0			48.500	184.000	D	4BU47 52-2CA20-2CA0			48.500	184.000
45	D	4BU52 32-2CA20-2DA0			45.000	181.000	D	4BU52 32-2CA20-2CA0			45.000	181.000
50	D	4BU53 32-2CA20-2DA0			48.000	201.000	D	4BU53 32-2CA20-2CA0			48.000	201.000
56	D	4BU53 42-2CA20-2DA0			62.000	214.000	D	4BU53 42-2CA20-2CA0			62.000	214.000
63	D	4BU54 32-2CA20-2DA0			43.000	258.000	D	4BU54 32-2CA20-2CA0			43.000	258.000
71	D	4BU54 42-2CA20-2DA0			56.000	271.000	D	4BU54 42-2CA20-2CA0			56.000	271.000
80	D	4BU55 32-2CA20-2DA0			60.000	301.000	D	4BU55 32-2CA20-2CA0			60.000	301.000
91	D	4BU56 32-2CA20-2DA0			63.000	338.000	D	4BU56 32-2CA20-2CA0			63.000	338.000
100	D	4BU56 42-2CA20-2DA0			78.000	352.000	D	4BU56 42-2CA20-2CA0			78.000	352.000
112	X	4BU58 32-2CA20-2DA0			56.000	420.000	X	4BU58 32-2CA20-2CA0			56.000	420.000
125	X	4BU58 42-2CA20-2DA0			70.500	434.000	X	4BU58 42-2CA20-2CA0			70.500	434.000
140	X	4BU58 52-2CA20-2DA0			90.000	454.000	X	4BU58 52-2CA20-2CA0			90.000	454.000
160	X	4BU59 32-2CA20-2DA0			96.000	508.000	X	4BU59 32-2CA20-2CA0			96.000	508.000
180	X	4BU60 32-2CA20-2DA0			98.000	571.000	X	4BU60 32-2CA20-2CA0			98.000	571.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V <math>\pm 5\%</math></b>												
18	B	4BU43 32-5CA20-2DA0			21.000	101.000	C	4BU43 32-5CA20-2CA0			21.000	101.000
20	C	4BU43 42-5CA20-2DA0			27.000	105.000	C	4BU43 42-5CA20-2CA0			27.000	105.000
22.5	C	4BU43 52-5CA20-2DA0			36.000	115.000	C	4BU43 52-5CA20-2CA0			36.000	115.000
25	C	4BU45 32-5CA20-2DA0			26.000	131.000	D	4BU45 32-5CA20-2CA0			26.000	131.000
28	D	4BU45 42-5CA20-2DA0			34.000	139.000	D	4BU45 42-5CA20-2CA0			34.000	139.000
31.5	D	4BU47 32-5CA20-2DA0			30.500	166.000	D	4BU47 32-5CA20-2CA0			30.500	166.000
35.5	D	4BU47 42-5CA20-2DA0			40.000	174.000	D	4BU47 42-5CA20-2CA0			40.000	174.000
40	D	4BU47 52-5CA20-2DA0			52.500	188.000	D	4BU47 52-5CA20-2CA0			52.500	188.000
45	D	4BU52 32-5CA20-2DA0			49.000	185.000	D	4BU52 32-5CA20-2CA0			49.000	185.000
50	D	4BU53 32-5CA20-2DA0			52.000	205.000	D	4BU53 32-5CA20-2CA0			52.000	205.000
56	D	4BU53 42-5CA20-2DA0			67.000	219.000	D	4BU53 42-5CA20-2CA0			67.000	219.000
63	D	4BU54 32-5CA20-2DA0			46.500	262.000	D	4BU54 32-5CA20-2CA0			46.500	262.000
71	D	4BU54 42-5CA20-2DA0			60.500	276.000	D	4BU54 42-5CA20-2CA0			60.500	276.000
80	D	4BU55 32-5CA20-2DA0			65.000	306.000	D	4BU55 32-5CA20-2CA0			65.000	306.000
91	D	4BU56 32-5CA20-2DA0			68.000	343.000	D	4BU56 32-5CA20-2CA0			68.000	343.000
100	D	4BU56 42-5CA20-2DA0			84.500	359.000	D	4BU56 42-5CA20-2CA0			84.500	359.000
112	X	4BU58 32-5CA20-2DA0			60.500	425.000	X	4BU58 32-5CA20-2CA0			60.500	425.000
125	X	4BU58 42-5CA20-2DA0			76.500	440.000	X	4BU58 42-5CA20-2CA0			76.500	440.000
140	X	4BU58 52-5CA20-2DA0			97.500	462.000	X	4BU58 52-5CA20-2CA0			97.500	462.000
160	X	4BU59 32-5CA20-2DA0			104.000	516.000	X	4BU59 32-5CA20-2CA0			104.000	516.000
180	X	4BU60 32-5CA20-2DA0			106.000	579.000	X	4BU60 32-5CA20-2CA0			106.000	579.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers

With one input voltage

Rated input voltage

 $U_{1N}$  3 AC 480 V, 480 V  $\pm 5\%$ ,rated output voltage  $U_{2N}$  3 AC  $\nabla$  400 V, $t_a = 40$  °C/H

PU (UNIT, SET, M) = 1

PS = 1 unit (You can order this quantity or a multiple thereof.)

PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5				DT <sup>1)</sup>	Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V</b>										
18	B	4BU43 32-2EA20-2DA0		19.500	110.000	C	4BU43 32-2EA20-2CA0		19.500	99.000
20	C	4BU43 42-2EA20-2DA0		25.000	103.000	C	4BU43 42-2EA20-2CA0		25.000	103.000
22.5	B	4BU43 52-2EA20-2DA0		35.000	112.000	C	4BU43 52-2EA20-2CA0		33.000	112.000
25	D	4BU45 32-2EA20-2DA0		24.000	129.000	D	4BU45 32-2EA20-2CA0		24.000	129.000
28	D	4BU45 42-2EA20-2DA0		31.500	136.000	D	4BU45 42-2EA20-2CA0		31.500	136.000
31.5	D	4BU47 32-2EA20-2DA0		28.000	163.000	D	4BU47 32-2EA20-2CA0		28.000	163.000
35.5	D	4BU47 42-2EA20-2DA0		37.000	171.000	D	4BU47 42-2EA20-2CA0		37.000	171.000
40	D	4BU47 52-2EA20-2DA0		48.500	184.000	D	4BU47 52-2EA20-2CA0		48.500	184.000
45	C	4BU52 32-2EA20-2DA0		45.000	181.000	D	4BU52 32-2EA20-2CA0		45.000	181.000
50	D	4BU53 32-2EA20-2DA0		48.000	201.000	D	4BU53 32-2EA20-2CA0		48.000	201.000
56	D	4BU53 42-2EA20-2DA0		62.000	214.000	D	4BU53 42-2EA20-2CA0		62.000	214.000
63	C	4BU54 32-2EA20-2DA0		50.700	258.000	D	4BU54 32-2EA20-2CA0		43.000	258.000
71	D	4BU54 42-2EA20-2DA0		56.000	271.000	D	4BU54 42-2EA20-2CA0		56.000	271.000
80	D	4BU55 32-2EA20-2DA0		60.000	301.000	D	4BU55 32-2EA20-2CA0		60.000	301.000
91	D	4BU56 32-2EA20-2DA0		63.000	338.000	D	4BU56 32-2EA20-2CA0		63.000	338.000
100	D	4BU56 42-2EA20-2DA0		78.000	352.000	D	4BU56 42-2EA20-2CA0		78.000	352.000
112	D	4BU58 32-2EA20-2DA0		62.000	420.000	X	4BU58 32-2EA20-2CA0		56.000	420.000
125	X	4BU58 42-2EA20-2DA0		70.500	434.000	X	4BU58 42-2EA20-2CA0		70.500	434.000
140	X	4BU58 52-2EA20-2DA0		90.000	454.000	X	4BU58 52-2EA20-2CA0		90.000	454.000
160	X	4BU59 32-2EA20-2DA0		96.000	508.000	X	4BU59 32-2EA20-2CA0		96.000	508.000
180	X	4BU60 32-2EA20-2DA0		98.000	571.000	X	4BU60 32-2EA20-2CA0		98.000	571.000

<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V <math>\pm 5\%</math></b>										
18	B	4BU43 32-5EA20-2DA0		21.700	101.000	C	4BU43 32-5EA20-2CA0		21.000	101.000
20	B	4BU43 42-5EA20-2DA0		27.000	105.000	C	4BU43 42-5EA20-2CA0		27.000	105.000
22.5	B	4BU43 52-5EA20-2DA0		37.000	115.000	C	4BU43 52-5EA20-2CA0		36.000	115.000
25	D	4BU45 32-5EA20-2DA0		26.000	131.000	D	4BU45 32-5EA20-2CA0		26.000	131.000
28	D	4BU45 42-5EA20-2DA0		34.000	139.000	D	4BU45 42-5EA20-2CA0		34.000	139.000
31.5	D	4BU47 32-5EA20-2DA0		30.500	166.000	D	4BU47 32-5EA20-2CA0		30.500	166.000
35.5	D	4BU47 42-5EA20-2DA0		40.000	174.000	D	4BU47 42-5EA20-2CA0		40.000	174.000
40	D	4BU47 52-5EA20-2DA0		52.500	188.000	D	4BU47 52-5EA20-2CA0		52.500	188.000
45	D	4BU52 32-5EA20-2DA0		49.000	185.000	D	4BU52 32-5EA20-2CA0		49.000	185.000
50	D	4BU53 32-5EA20-2DA0		52.000	205.000	D	4BU53 32-5EA20-2CA0		52.000	205.000
56	D	4BU53 42-5EA20-2DA0		67.000	219.000	D	4BU53 42-5EA20-2CA0		67.000	219.000
63	D	4BU54 32-5EA20-2DA0		46.500	262.000	D	4BU54 32-5EA20-2CA0		46.500	262.000
71	D	4BU54 42-5EA20-2DA0		60.500	276.000	D	4BU54 42-5EA20-2CA0		60.500	276.000
80	D	4BU55 32-5EA20-2DA0		65.000	306.000	D	4BU55 32-5EA20-2CA0		65.000	306.000
91	D	4BU56 32-5EA20-2DA0		68.000	343.000	D	4BU56 32-5EA20-2CA0		68.000	343.000
100	D	4BU56 42-5EA20-2DA0		84.500	359.000	D	4BU56 42-5EA20-2CA0		84.500	359.000
112	X	4BU58 32-5EA20-2DA0		60.500	425.000	X	4BU58 32-5EA20-2CA0		60.500	425.000
125	X	4BU58 42-5EA20-2DA0		76.500	440.000	X	4BU58 42-5EA20-2CA0		76.500	440.000
140	X	4BU58 52-5EA20-2DA0		97.500	462.000	X	4BU58 52-5EA20-2CA0		97.500	462.000
160	X	4BU59 32-5EA20-2DA0		104.000	516.000	X	4BU59 32-5EA20-2CA0		104.000	516.000
180	X	4BU60 32-5EA20-2DA0		106.000	579.000	X	4BU60 32-5EA20-2CA0		98.000	571.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

### 4BU matching transformers

With one input voltage

**Rated input voltage**  
 $U_{1N}$  3 AC 400 V, 400 V  $\pm 5\%$ , 440 V, 440 V  $\pm 5\%$ ,  
**rated output voltage**  $U_{2N}$  3 AC  $\nabla$  208 V,  
 $t_a = 55^\circ\text{C/H}$

PU (UNIT, SET, M) = 1  
 PS = 1 unit (You can order this quantity or a multiple thereof.)  
 PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Vector group Yyn0				
		Order No.	Price per PU					Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V</b>												
18	C	4BU43 32-2AR13-2DA0			21.500	101.000	C	4BU43 32-2AR13-2CA0			21.500	101.000
20	C	4BU43 42-2AR13-2DA0			27.500	106.000	C	4BU43 42-2AR13-2CA0			27.500	106.000
22.5	C	4BU43 52-2AR13-2DA0			37.000	116.000	B	4BU43 52-2AR13-2CA0			39.500	116.000
25	D	4BU45 32-2AR13-2DA0			27.000	132.000	D	4BU45 32-2AR13-2CA0			27.000	132.000
28	D	4BU45 42-2AR13-2DA0			31.500	140.000	D	4BU45 42-2AR13-2CA0			31.500	140.000
31.5	D	4BU47 32-2AR13-2DA0			31.500	167.000	D	4BU47 32-2AR13-2CA0			31.500	167.000
35.5	D	4BU47 42-2AR13-2DA0			41.000	175.000	D	4BU47 42-2AR13-2CA0			41.000	175.000
40	D	4BU47 52-2AR13-2DA0			55.000	190.000	D	4BU47 52-2AR13-2CA0			55.000	190.000
45	D	4BU52 32-2AR13-2DA0			50.500	187.000	D	4BU52 32-2AR13-2CA0			50.500	187.000
50	D	4BU53 32-2AR13-2DA0			53.500	207.000	D	4BU53 32-2AR13-2CA0			53.500	207.000
56	D	4BU53 42-2AR13-2DA0			70.000	222.000	D	4BU53 42-2AR13-2CA0			70.000	222.000
63	D	4BU54 32-2AR13-2DA0			48.000	263.000	D	4BU54 32-2AR13-2CA0			48.000	263.000
71	D	4BU54 42-2AR13-2DA0			62.000	277.000	D	4BU54 42-2AR13-2CA0			62.000	277.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V <math>\pm 5\%</math></b>												
18	C	4BU43 32-5AR13-2DA0			23.500	103.000	C	4BU43 32-5AR13-2CA0			23.500	103.000
20	C	4BU43 42-5AR13-2DA0			30.000	109.000	C	4BU43 42-5AR13-2CA0			30.000	109.000
22.5	C	4BU43 52-5AR13-2DA0			40.000	119.000	C	4BU43 52-5AR13-2CA0			40.000	119.000
25	D	4BU45 32-5AR13-2DA0			29.500	135.000	D	4BU45 32-5AR13-2CA0			29.500	135.000
28	D	4BU45 42-5AR13-2DA0			38.000	143.000	D	4BU45 42-5AR13-2CA0			38.000	143.000
31.5	D	4BU47 32-5AR13-2DA0			34.000	170.000	D	4BU47 32-5AR13-2CA0			34.000	170.000
35.5	D	4BU47 42-5AR13-2DA0			44.500	179.000	D	4BU47 42-5AR13-2CA0			44.500	179.000
40	D	4BU47 52-5AR13-2DA0			59.500	195.000	D	4BU47 52-5AR13-2CA0			59.500	195.000
45	D	4BU52 32-5AR13-2DA0			54.500	191.000	D	4BU52 32-5AR13-2CA0			54.500	191.000
50	D	4BU53 32-5AR13-2DA0			58.000	212.000	D	4BU53 32-5AR13-2CA0			58.000	212.000
56	D	4BU53 42-5AR13-2DA0			76.000	228.000	D	4BU53 42-5AR13-2CA0			76.000	228.000
63	D	4BU54 32-5AR13-2DA0			52.000	267.000	D	4BU54 32-5AR13-2CA0			52.000	267.000
71	D	4BU54 42-5AR13-2DA0			67.000	282.000	D	4BU54 42-5AR13-2CA0			67.000	282.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V</b>												
18	C	4BU43 32-2CR13-2DA0			21.500	101.000	C	4BU43 32-2CR13-2CA0			21.500	101.000
20	C	4BU43 42-2CR13-2DA0			27.500	106.000	C	4BU43 42-2CR13-2CA0			27.500	106.000
22.5	C	4BU43 52-2CR13-2DA0			37.000	116.000	C	4BU43 52-2CR13-2CA0			37.000	116.000
25	D	4BU45 32-2CR13-2DA0			27.000	132.000	D	4BU45 32-2CR13-2CA0			27.000	132.000
28	D	4BU45 42-2CR13-2DA0			31.500	140.000	D	4BU45 42-2CR13-2CA0			31.500	140.000
31.5	D	4BU47 32-2CR13-2DA0			31.500	167.000	D	4BU47 32-2CR13-2CA0			31.500	167.000
35.5	D	4BU47 42-2CR13-2DA0			41.000	175.000	D	4BU47 42-2CR13-2CA0			41.000	175.000
40	D	4BU47 52-2CR13-2DA0			55.000	190.000	D	4BU47 52-2CR13-2CA0			55.000	190.000
45	D	4BU52 32-2CR13-2DA0			50.500	187.000	D	4BU52 32-2CR13-2CA0			50.500	187.000
50	D	4BU53 32-2CR13-2DA0			53.500	207.000	D	4BU53 32-2CR13-2CA0			53.500	207.000
56	D	4BU53 42-2CR13-2DA0			70.000	222.000	D	4BU53 42-2CR13-2CA0			70.000	222.000
63	D	4BU54 32-2CR13-2DA0			48.000	263.000	D	4BU54 32-2CR13-2CA0			48.000	263.000
71	D	4BU54 42-2CR13-2DA0			62.000	277.000	D	4BU54 42-2CR13-2CA0			62.000	277.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V <math>\pm 5\%</math></b>												
18	C	4BU43 32-5CR13-2DA0			23.500	103.000	C	4BU43 32-5CR13-2CA0			23.500	103.000
20	C	4BU43 42-5CR13-2DA0			30.000	109.000	C	4BU43 42-5CR13-2CA0			30.000	109.000
22.5	C	4BU43 52-5CR13-2DA0			40.000	119.000	C	4BU43 52-5CR13-2CA0			40.000	119.000
25	D	4BU45 32-5CR13-2DA0			29.500	135.000	D	4BU45 32-5CR13-2CA0			29.500	135.000
28	D	4BU45 42-5CR13-2DA0			38.000	143.000	D	4BU45 42-5CR13-2CA0			38.000	143.000
31.5	D	4BU47 32-5CR13-2DA0			34.000	170.000	D	4BU47 32-5CR13-2CA0			34.000	170.000
35.5	D	4BU47 42-5CR13-2DA0			44.500	179.000	D	4BU47 42-5CR13-2CA0			44.500	179.000
40	D	4BU47 52-5CR13-2DA0			59.500	195.000	D	4BU47 52-5CR13-2CA0			59.500	195.000
45	D	4BU52 32-5CR13-2DA0			54.500	191.000	D	4BU52 32-5CR13-2CA0			54.500	191.000
50	D	4BU53 32-5CR13-2DA0			58.000	212.000	D	4BU53 32-5CR13-2CA0			58.000	212.000
56	D	4BU53 42-5CR13-2DA0			76.000	228.000	D	4BU53 42-5CR13-2CA0			76.000	228.000
63	D	4BU54 32-5CR13-2DA0			52.000	267.000	D	4BU54 32-5CR13-2CA0			52.000	267.000
71	D	4BU54 42-5CR13-2DA0			67.000	282.000	D	4BU54 42-5CR13-2CA0			67.000	282.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers

**With one input voltage****Rated input voltage**

$U_{1N}$  3 AC 480 V, 3 AC 480 V  $\pm 5\%$ ,  
**rated output voltage**  $U_{2N}$  3 AC  $\nabla$  208 V,  
 $t_a = 55$  °C/H

PU (UNIT, SET, M) = 1  
 PS = 1 unit (You can order this quantity or a multiple thereof.)  
 PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5				DT <sup>1)</sup>	Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V</b>										
18	C	4BU43 32-2ER13-2DA0		21.500	101.000	C	4BU43 32-2ER13-2CA0		21.500	101.000
20	C	4BU43 42-2ER13-2DA0		27.500	106.000	C	4BU43 42-2ER13-2CA0		27.500	106.000
22.5	C	4BU43 52-2ER13-2DA0		37.000	116.000	C	4BU43 52-2ER13-2CA0		37.000	116.000
25	D	4BU45 32-2ER13-2DA0		27.000	132.000	D	4BU45 32-2ER13-2CA0		27.000	132.000
28	D	4BU45 42-2ER13-2DA0		31.500	140.000	D	4BU45 42-2ER13-2CA0		31.500	140.000
31.5	D	4BU47 32-2ER13-2DA0		31.500	167.000	D	4BU47 32-2ER13-2CA0		31.500	167.000
35.5	D	4BU47 42-2ER13-2DA0		41.000	175.000	D	4BU47 42-2ER13-2CA0		41.000	175.000
40	D	4BU47 52-2ER13-2DA0		55.000	190.000	D	4BU47 52-2ER13-2CA0		55.000	190.000
45	D	4BU52 32-2ER13-2DA0		50.500	187.000	D	4BU52 32-2ER13-2CA0		50.500	187.000
50	D	4BU53 32-2ER13-2DA0		53.500	207.000	D	4BU53 32-2ER13-2CA0		53.500	207.000
56	D	4BU53 42-2ER13-2DA0		70.000	222.000	D	4BU53 42-2ER13-2CA0		70.000	222.000
63	D	4BU54 32-2ER13-2DA0		48.000	263.000	D	4BU54 32-2ER13-2CA0		48.000	263.000
71	D	4BU54 42-2ER13-2DA0		62.000	277.000	D	4BU54 42-2ER13-2CA0		62.000	277.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V <math>\pm 5\%</math></b>										
18	C	4BU43 32-5ER13-2DA0		23.500	103.000	C	4BU43 32-5ER13-2CA0		23.500	103.000
20	C	4BU43 42-5ER13-2DA0		30.000	109.000	C	4BU43 42-5ER13-2CA0		30.000	109.000
22.5	C	4BU43 52-5ER13-2DA0		40.000	119.000	C	4BU43 52-5ER13-2CA0		40.000	119.000
25	D	4BU45 32-5ER13-2DA0		29.500	135.000	D	4BU45 32-5ER13-2CA0		29.500	135.000
28	D	4BU45 42-5ER13-2DA0		38.000	143.000	D	4BU45 42-5ER13-2CA0		38.000	143.000
31.5	D	4BU47 32-5ER13-2DA0		34.000	170.000	D	4BU47 32-5ER13-2CA0		34.000	170.000
35.5	D	4BU47 42-5ER13-2DA0		44.500	179.000	D	4BU47 42-5ER13-2CA0		44.500	179.000
40	D	4BU47 52-5ER13-2DA0		59.500	195.000	D	4BU47 52-5ER13-2CA0		59.500	195.000
45	D	4BU52 32-5ER13-2DA0		54.500	191.000	D	4BU52 32-5ER13-2CA0		54.500	191.000
50	D	4BU53 32-5ER13-2DA0		58.000	212.000	D	4BU53 32-5ER13-2CA0		58.000	212.000
56	D	4BU53 42-5ER13-2DA0		76.000	228.000	D	4BU53 42-5ER13-2CA0		76.000	228.000
63	D	4BU54 32-5ER13-2DA0		52.000	267.000	D	4BU54 32-5ER13-2CA0		52.000	267.000
71	D	4BU54 42-5ER13-2DA0		67.000	282.000	D	4BU54 42-5ER13-2CA0		67.000	282.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

### 4BU matching transformers

With one input voltage

Rated input voltage

$U_{1N}$  3 AC 400 V, 400 V  $\pm 5\%$ , 440 V, 440 V  $\pm 5\%$ ,

rated output voltage  $U_{2N}$  3 AC  $\nabla$  400 V,

$t_a = 55^\circ\text{C/H}$

PU (UNIT, SET, M) = 1

PS = 1 unit (You can order this quantity or a multiple thereof.)

PG = 104

Rated power $P_n$	DT <sup>1)</sup>	Vector group Dyn5				DT <sup>1)</sup>	Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V</b>										
18	C	4BU43 32-2AA23-2DA0		21.500	101.000	B	4BU43 32-2AA23-2CA0		23.000	110.000
20	C	4BU43 42-2AA23-2DA0		27.500	106.000	C	4BU43 42-2AA23-2CA0		27.500	106.000
22.5	C	4BU43 52-2AA23-2DA0		37.000	116.000	C	4BU43 52-2AA23-2CA0		37.000	116.000
25	C	4BU45 32-2AA23-2DA0		28.800	140.000	D	4BU45 32-2AA23-2CA0		27.000	132.000
28	C	4BU45 42-2AA23-2DA0		37.600	140.000	D	4BU45 42-2AA23-2CA0		31.500	140.000
31.5	D	4BU47 32-2AA23-2DA0		31.500	167.000	D	4BU47 32-2AA23-2CA0		31.500	167.000
35.5	D	4BU47 42-2AA23-2DA0		41.000	175.000	D	4BU47 42-2AA23-2CA0		41.000	175.000
40	C	4BU47 52-2AA23-2DA0		55.000	190.000	D	4BU47 52-2AA23-2CA0		55.000	190.000
45	D	4BU52 32-2AA23-2DA0		50.500	187.000	D	4BU52 32-2AA23-2CA0		50.500	187.000
50	D	4BU53 32-2AA23-2DA0		53.500	207.000	D	4BU53 32-2AA23-2CA0		53.500	207.000
56	D	4BU53 42-2AA23-2DA0		70.000	222.000	D	4BU53 42-2AA23-2CA0		70.000	222.000
63	C	4BU54 32-2AA23-2DA0		53.000	290.000	D	4BU54 32-2AA23-2CA0		48.000	263.000
71	D	4BU54 42-2AA23-2DA0		62.000	277.000	D	4BU54 42-2AA23-2CA0		62.000	277.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V <math>\pm 5\%</math></b>										
18	B	4BU43 32-5AA23-2DA0		23.500	103.000	C	4BU43 32-5AA23-2CA0		23.500	103.000
20	C	4BU43 42-5AA23-2DA0		30.000	109.000	C	4BU43 42-5AA23-2CA0		30.000	109.000
22.5	C	4BU43 52-5AA23-2DA0		40.000	119.000	C	4BU43 52-5AA23-2CA0		40.000	119.000
25	D	4BU45 32-5AA23-2DA0		29.500	135.000	D	4BU45 32-5AA23-2CA0		29.500	135.000
28	C	4BU45 42-5AA23-2DA0		38.000	143.000	D	4BU45 42-5AA23-2CA0		38.000	143.000
31.5	D	4BU47 32-5AA23-2DA0		34.000	170.000	D	4BU47 32-5AA23-2CA0		34.000	170.000
35.5	D	4BU47 42-5AA23-2DA0		44.500	179.000	D	4BU47 42-5AA23-2CA0		44.500	179.000
40	D	4BU47 52-5AA23-2DA0		59.500	195.000	D	4BU47 52-5AA23-2CA0		59.500	195.000
45	D	4BU52 32-5AA23-2DA0		54.500	191.000	D	4BU52 32-5AA23-2CA0		54.500	191.000
50	D	4BU53 32-5AA23-2DA0		58.000	212.000	D	4BU53 32-5AA23-2CA0		58.000	212.000
56	D	4BU53 42-5AA23-2DA0		76.000	228.000	D	4BU53 42-5AA23-2CA0		76.000	228.000
63	D	4BU54 32-5AA23-2DA0		52.000	267.000	D	4BU54 32-5AA23-2CA0		52.000	267.000
71	D	4BU54 42-5AA23-2DA0		67.000	282.000	D	4BU54 42-5AA23-2CA0		67.000	282.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V</b>										
18	C	4BU43 32-2CA23-2DA0		21.500	101.000	C	4BU43 32-2CA23-2CA0		21.500	101.000
20	C	4BU43 42-2CA23-2DA0		27.500	106.000	C	4BU43 42-2CA23-2CA0		27.500	106.000
22.5	C	4BU43 52-2CA23-2DA0		37.000	116.000	C	4BU43 52-2CA23-2CA0		37.000	116.000
25	D	4BU45 32-2CA23-2DA0		27.000	132.000	D	4BU45 32-2CA23-2CA0		27.000	132.000
28	D	4BU45 42-2CA23-2DA0		31.500	140.000	D	4BU45 42-2CA23-2CA0		31.500	140.000
31.5	D	4BU47 32-2CA23-2DA0		31.500	167.000	D	4BU47 32-2CA23-2CA0		31.500	167.000
35.5	D	4BU47 42-2CA23-2DA0		41.000	175.000	D	4BU47 42-2CA23-2CA0		41.000	175.000
40	D	4BU47 52-2CA23-2DA0		55.000	190.000	D	4BU47 52-2CA23-2CA0		55.000	190.000
45	D	4BU52 32-2CA23-2DA0		50.500	187.000	D	4BU52 32-2CA23-2CA0		50.500	187.000
50	D	4BU53 32-2CA23-2DA0		53.500	207.000	D	4BU53 32-2CA23-2CA0		53.500	207.000
56	D	4BU53 42-2CA23-2DA0		70.000	222.000	D	4BU53 42-2CA23-2CA0		70.000	222.000
63	D	4BU54 32-2CA23-2DA0		48.000	263.000	D	4BU54 32-2CA23-2CA0		48.000	263.000
71	D	4BU54 42-2CA23-2DA0		62.000	277.000	D	4BU54 42-2CA23-2CA0		62.000	277.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V <math>\pm 5\%</math></b>										
18	C	4BU43 32-5CA23-2DA0		23.500	103.000	C	4BU43 32-5CA23-2CA0		23.500	103.000
20	C	4BU43 42-5CA23-2DA0		30.000	109.000	C	4BU43 42-5CA23-2CA0		30.000	109.000
22.5	C	4BU43 52-5CA23-2DA0		40.000	119.000	C	4BU43 52-5CA23-2CA0		40.000	119.000
25	D	4BU45 32-5CA23-2DA0		29.500	135.000	D	4BU45 32-5CA23-2CA0		29.500	135.000
28	D	4BU45 42-5CA23-2DA0		38.000	143.000	D	4BU45 42-5CA23-2CA0		38.000	143.000
31.5	D	4BU47 32-5CA23-2DA0		34.000	170.000	D	4BU47 32-5CA23-2CA0		34.000	170.000
35.5	D	4BU47 42-5CA23-2DA0		44.500	179.000	D	4BU47 42-5CA23-2CA0		44.500	179.000
40	D	4BU47 52-5CA23-2DA0		59.500	195.000	D	4BU47 52-5CA23-2CA0		59.500	195.000
45	D	4BU52 32-5CA23-2DA0		54.500	191.000	D	4BU52 32-5CA23-2CA0		54.500	191.000
50	D	4BU53 32-5CA23-2DA0		58.000	212.000	D	4BU53 32-5CA23-2CA0		58.000	212.000
56	D	4BU53 42-5CA23-2DA0		76.000	228.000	D	4BU53 42-5CA23-2CA0		76.000	228.000
63	D	4BU54 32-5CA23-2DA0		52.000	267.000	D	4BU54 32-5CA23-2CA0		52.000	267.000
71	D	4BU54 42-5CA23-2DA0		67.000	282.000	D	4BU54 42-5CA23-2CA0		67.000	282.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".



# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers

**With one input voltage****Rated input voltage** $U_{1N}$  3 AC 480 V, 480 V  $\pm 5\%$ ,rated output voltage  $U_{2N}$  3 AC  $\nabla$  400 V, $t_a = 55\text{ }^\circ\text{C/H}$ 

PU (UNIT, SET, M) = 1

PS = 1 unit (You can order this quantity or a multiple thereof.)

PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Vector group Yyn0				
		Order No.	Price per PU					Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V</b>												
18	C	4BU43 32-2EA23-2DA0			21.500	101.000	C	4BU43 32-2EA23-2CA0			21.500	101.000
20	C	4BU43 42-2EA23-2DA0			27.500	106.000	C	4BU43 42-2EA23-2CA0			27.500	106.000
22.5	C	4BU43 52-2EA23-2DA0			37.000	116.000	C	4BU43 52-2EA23-2CA0			37.000	116.000
25	D	4BU45 32-2EA23-2DA0			27.000	132.000	D	4BU45 32-2EA23-2CA0			27.000	132.000
28	D	4BU45 42-2EA23-2DA0			31.500	140.000	D	4BU45 42-2EA23-2CA0			31.500	140.000
31.5	D	4BU47 32-2EA23-2DA0			31.500	167.000	D	4BU47 32-2EA23-2CA0			31.500	167.000
35.5	D	4BU47 42-2EA23-2DA0			41.000	175.000	D	4BU47 42-2EA23-2CA0			41.000	175.000
40	D	4BU47 52-2EA23-2DA0			55.000	190.000	D	4BU47 52-2EA23-2CA0			55.000	190.000
45	D	4BU52 32-2EA23-2DA0			50.500	187.000	D	4BU52 32-2EA23-2CA0			50.500	187.000
50	D	4BU53 32-2EA23-2DA0			53.500	207.000	D	4BU53 32-2EA23-2CA0			53.500	207.000
56	C	4BU53 42-2EA23-2DA0			75.000	222.000	D	4BU53 42-2EA23-2CA0			70.000	222.000
63	D	4BU54 32-2EA23-2DA0			48.000	263.000	D	4BU54 32-2EA23-2CA0			48.000	263.000
71	D	4BU54 42-2EA23-2DA0			62.000	277.000	D	4BU54 42-2EA23-2CA0			62.000	277.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V <math>\pm 5\%</math></b>												
18	C	4BU43 32-5EA23-2DA0			23.500	103.000	C	4BU43 32-5EA23-2CA0			23.500	103.000
20	C	4BU43 42-5EA23-2DA0			30.000	109.000	C	4BU43 42-5EA23-2CA0			30.000	109.000
22.5	C	4BU43 52-5EA23-2DA0			40.000	119.000	C	4BU43 52-5EA23-2CA0			40.000	119.000
25	D	4BU45 32-5EA23-2DA0			29.500	135.000	D	4BU45 32-5EA23-2CA0			29.500	135.000
28	D	4BU45 42-5EA23-2DA0			38.000	143.000	D	4BU45 42-5EA23-2CA0			38.000	143.000
31.5	D	4BU47 32-5EA23-2DA0			34.000	170.000	D	4BU47 32-5EA23-2CA0			34.000	170.000
35.5	D	4BU47 42-5EA23-2DA0			44.500	179.000	D	4BU47 42-5EA23-2CA0			44.500	179.000
40	D	4BU47 52-5EA23-2DA0			59.500	195.000	D	4BU47 52-5EA23-2CA0			59.500	195.000
45	D	4BU52 32-5EA23-2DA0			54.500	191.000	D	4BU52 32-5EA23-2CA0			54.500	191.000
50	C	4BU53 32-5EA23-2DA0			58.000	212.000	D	4BU53 32-5EA23-2CA0			58.000	212.000
56	D	4BU53 42-5EA23-2DA0			76.000	228.000	D	4BU53 42-5EA23-2CA0			76.000	228.000
63	D	4BU54 32-5EA23-2DA0			52.000	267.000	D	4BU54 32-5EA23-2CA0			52.000	267.000
71	D	4BU54 42-5EA23-2DA0			67.000	282.000	D	4BU54 42-5EA23-2CA0			67.000	282.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers  
with cURus approval

### Overview

- DIN VDE 0532-6
- AC 50/60 Hz
- $\Delta$  or  $Y$  (see "Selection and ordering data")
- **cURus**
- $t_a = 40$  °C/H or  $t_a = 55$  °C/H  
(see "Selection and ordering data")
- Degree of protection IP00



4BU

### Selection and ordering data

With one input voltage

#### Rated input voltage

$U_{1N}$  3 AC 400 V, 400 V  $\pm 5$  %,  
rated output voltage  $U_{2N}$  3 AC  $Y$  208 V,  
 $t_a = 40$  °C/H

**cURus**

PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this  
quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	DT <sup>1)</sup>	Vector group Dyn5				Vector group Yyn0				
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V</b>										
18	C	4BU43 33-2AR10-2DA0		21.500	100.000	C	4BU43 33-2AR10-2CA0		21.500	100.000
20	C	4BU43 43-2AR10-2DA0		27.500	106.000	C	4BU43 43-2AR10-2CA0		27.500	106.000
22.5	C	4BU43 53-2AR10-2DA0		37.000	115.000	C	4BU43 53-2AR10-2CA0		37.000	115.000
25	D	4BU45 33-2AR10-2DA0		27.000	132.000	D	4BU45 33-2AR10-2CA0		27.000	132.000
28	D	4BU45 43-2AR10-2DA0		35.000	140.000	D	4BU45 43-2AR10-2CA0		35.000	140.000
31.5	D	4BU47 33-2AR10-2DA0		31.500	166.000	D	4BU47 33-2AR10-2CA0		31.500	166.000
35.5	D	4BU47 43-2AR10-2DA0		41.000	175.000	D	4BU47 43-2AR10-2CA0		41.000	175.000
40	D	4BU47 53-2AR10-2DA0		55.000	189.000	D	4BU47 53-2AR10-2CA0		55.000	189.000
45	D	4BU52 33-2AR10-2DA0		50.500	187.000	D	4BU52 33-2AR10-2CA0		50.500	187.000
50	D	4BU53 33-2AR10-2DA0		53.500	207.000	D	4BU53 33-2AR10-2CA0		53.500	207.000
56	D	4BU53 43-2AR10-2DA0		69.500	223.000	D	4BU53 43-2AR10-2CA0		69.500	223.000
63	D	4BU54 33-2AR10-2DA0		48.000	263.000	D	4BU54 33-2AR10-2CA0		48.000	263.000
71	C	4BU54 43-2AR10-2DA0		69.800	277.000	D	4BU54 43-2AR10-2CA0		62.000	277.000
80	D	4BU55 33-2AR10-2DA0		66.500	308.000	D	4BU55 33-2AR10-2CA0		66.500	308.000
91	D	4BU56 33-2AR10-2DA0		70.500	347.000	D	4BU56 33-2AR10-2CA0		70.500	347.000
100	D	4BU56 43-2AR10-2DA0		87.000	363.000	D	4BU56 43-2AR10-2CA0		87.000	363.000
112	X	4BU58 33-2AR10-2DA0		61.500	425.000	X	4BU58 33-2AR10-2CA0		61.500	425.000
125	X	4BU58 43-2AR10-2DA0		77.500	442.000	X	4BU58 43-2AR10-2CA0		77.500	442.000
140	X	4BU58 53-2AR10-2DA0		99.000	462.000	X	4BU58 53-2AR10-2CA0		99.000	462.000
160	X	4BU59 33-2AR10-2DA0		106.000	518.000	X	4BU59 33-2AR10-2CA0		106.000	518.000
180	X	4BU60 33-2AR10-2DA0		108.000	581.000	X	4BU60 33-2AR10-2CA0		108.000	581.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V <math>\pm 5</math> %</b>										
18	C	4BU43 33-5AR10-2DA0		23.500	102.000	C	4BU43 33-5AR10-2CA0		23.500	102.000
20	C	4BU43 43-5AR10-2DA0		30.000	109.000	C	4BU43 43-5AR10-2CA0		30.000	109.000
22.5	C	4BU43 53-5AR10-2DA0		40.000	118.000	C	4BU43 53-5AR10-2CA0		40.000	118.000
25	D	4BU45 33-5AR10-2DA0		29.500	135.000	D	4BU45 33-5AR10-2CA0		29.500	135.000
28	D	4BU45 43-5AR10-2DA0		38.000	143.000	D	4BU45 43-5AR10-2CA0		38.000	143.000
31.5	D	4BU47 33-5AR10-2DA0		34.000	169.000	D	4BU47 33-5AR10-2CA0		34.000	169.000
35.5	D	4BU47 43-5AR10-2DA0		44.500	179.000	D	4BU47 43-5AR10-2CA0		44.500	179.000
40	D	4BU47 53-5AR10-2DA0		59.500	194.000	D	4BU47 53-5AR10-2CA0		59.500	194.000
45	D	4BU52 33-5AR10-2DA0		54.500	191.000	D	4BU52 33-5AR10-2CA0		54.500	191.000
50	D	4BU53 33-5AR10-2DA0		58.000	212.000	D	4BU53 33-5AR10-2CA0		58.000	212.000
56	D	4BU53 43-5AR10-2DA0		75.000	229.000	D	4BU53 43-5AR10-2CA0		75.000	229.000
63	D	4BU54 33-5AR10-2DA0		52.000	267.000	D	4BU54 33-5AR10-2CA0		52.000	267.000
71	D	4BU54 43-5AR10-2DA0		67.000	282.000	D	4BU54 43-5AR10-2CA0		67.000	282.000
80	D	4BU55 33-5AR10-2DA0		72.000	314.000	D	4BU55 33-5AR10-2CA0		72.000	314.000
91	D	4BU56 33-5AR10-2DA0		76.500	353.000	D	4BU56 33-5AR10-2CA0		76.500	353.000
100	D	4BU56 43-5AR10-2DA0		94.000	370.000	D	4BU56 43-5AR10-2CA0		94.000	370.000
112	X	4BU58 33-5AR10-2DA0		66.500	430.000	X	4BU58 33-5AR10-2CA0		66.500	430.000
125	X	4BU58 43-5AR10-2DA0		84.000	449.000	X	4BU58 43-5AR10-2CA0		84.000	449.000
140	X	4BU58 53-5AR10-2DA0		107.000	470.000	X	4BU58 53-5AR10-2CA0		107.000	470.000
160	X	4BU59 33-5AR10-2DA0		114.500	527.000	X	4BU59 33-5AR10-2CA0		114.500	527.000
180	X	4BU60 33-5AR10-2DA0		117.000	590.000	X	4BU60 33-5AR10-2CA0		117.000	590.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers  
with cURus approval

With one input voltage

Rated input voltage

$U_{1N}$  3 AC 440 V, 440 V  $\pm 5\%$ ,

rated output voltage  $U_{2N}$  3 AC  $\nabla$  208 V,

$t_a = 40$  °C/H

cURus

PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	DT <sup>1)</sup>	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Vector group Yyn0			Cu weight per PU approx. kg	Total weight per PU approx. kg
		Order No.	Price per PU					Order No.	Price per PU			
<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V</b>												
18	C	4BU43 33-2CR10-2DA0			21.500	100.000	C	4BU43 33-2CR10-2CA0			21.500	100.000
20	C	4BU43 43-2CR10-2DA0			27.500	106.000	C	4BU43 43-2CR10-2CA0			27.500	106.000
22.5	C	4BU43 53-2CR10-2DA0			37.000	115.000	C	4BU43 53-2CR10-2CA0			37.000	115.000
25	D	4BU45 33-2CR10-2DA0			27.000	132.000	D	4BU45 33-2CR10-2CA0			27.000	132.000
28	D	4BU45 43-2CR10-2DA0			35.000	140.000	D	4BU45 43-2CR10-2CA0			35.000	140.000
31.5	D	4BU47 33-2CR10-2DA0			31.500	166.000	D	4BU47 33-2CR10-2CA0			31.500	166.000
35.5	D	4BU47 43-2CR10-2DA0			41.000	175.000	D	4BU47 43-2CR10-2CA0			41.000	175.000
40	D	4BU47 53-2CR10-2DA0			55.000	189.000	D	4BU47 53-2CR10-2CA0			55.000	189.000
45	D	4BU52 33-2CR10-2DA0			50.500	187.000	D	4BU52 33-2CR10-2CA0			50.500	187.000
50	D	4BU53 33-2CR10-2DA0			53.500	207.000	D	4BU53 33-2CR10-2CA0			53.500	207.000
56	D	4BU53 43-2CR10-2DA0			69.500	223.000	D	4BU53 43-2CR10-2CA0			69.500	223.000
63	D	4BU54 33-2CR10-2DA0			48.000	263.000	D	4BU54 33-2CR10-2CA0			48.000	263.000
71	D	4BU54 43-2CR10-2DA0			62.000	277.000	D	4BU54 43-2CR10-2CA0			62.000	277.000
80	D	4BU55 33-2CR10-2DA0			66.500	308.000	D	4BU55 33-2CR10-2CA0			66.500	308.000
91	D	4BU56 33-2CR10-2DA0			70.500	347.000	D	4BU56 33-2CR10-2CA0			70.500	347.000
100	D	4BU56 43-2CR10-2DA0			87.000	363.000	D	4BU56 43-2CR10-2CA0			87.000	363.000
112	X	4BU58 33-2CR10-2DA0			61.500	425.000	X	4BU58 33-2CR10-2CA0			61.500	425.000
125	X	4BU58 43-2CR10-2DA0			77.500	442.000	X	4BU58 43-2CR10-2CA0			77.500	442.000
140	X	4BU58 53-2CR10-2DA0			99.000	462.000	X	4BU58 53-2CR10-2CA0			99.000	462.000
160	X	4BU59 33-2CR10-2DA0			106.000	518.000	X	4BU59 33-2CR10-2CA0			106.000	518.000
180	X	4BU60 33-2CR10-2DA0			108.000	581.000	X	4BU60 33-2CR10-2CA0			108.000	581.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V <math>\pm 5\%</math></b>												
18	C	4BU43 33-5CR10-2DA0			23.500	102.000	C	4BU43 33-5CR10-2CA0			23.500	102.000
20	C	4BU43 43-5CR10-2DA0			30.000	109.000	C	4BU43 43-5CR10-2CA0			30.000	109.000
22.5	C	4BU43 53-5CR10-2DA0			40.000	118.000	C	4BU43 53-5CR10-2CA0			40.000	118.000
25	D	4BU45 33-5CR10-2DA0			29.500	135.000	D	4BU45 33-5CR10-2CA0			29.500	135.000
28	D	4BU45 43-5CR10-2DA0			38.000	143.000	D	4BU45 43-5CR10-2CA0			38.000	143.000
31.5	D	4BU47 33-5CR10-2DA0			34.000	169.000	D	4BU47 33-5CR10-2CA0			34.000	169.000
35.5	D	4BU47 43-5CR10-2DA0			44.500	179.000	D	4BU47 43-5CR10-2CA0			44.500	179.000
40	D	4BU47 53-5CR10-2DA0			59.500	194.000	D	4BU47 53-5CR10-2CA0			59.500	194.000
45	D	4BU52 33-5CR10-2DA0			54.500	191.000	D	4BU52 33-5CR10-2CA0			54.500	191.000
50	D	4BU53 33-5CR10-2DA0			58.000	212.000	D	4BU53 33-5CR10-2CA0			58.000	212.000
56	D	4BU53 43-5CR10-2DA0			75.000	229.000	D	4BU53 43-5CR10-2CA0			75.000	229.000
63	D	4BU54 33-5CR10-2DA0			52.000	267.000	D	4BU54 33-5CR10-2CA0			52.000	267.000
71	D	4BU54 43-5CR10-2DA0			67.000	282.000	D	4BU54 43-5CR10-2CA0			67.000	282.000
80	D	4BU55 33-5CR10-2DA0			72.000	314.000	D	4BU55 33-5CR10-2CA0			72.000	314.000
91	D	4BU56 33-5CR10-2DA0			76.500	353.000	D	4BU56 33-5CR10-2CA0			76.500	353.000
100	D	4BU56 43-5CR10-2DA0			94.000	370.000	D	4BU56 43-5CR10-2CA0			94.000	370.000
112	X	4BU58 33-5CR10-2DA0			66.500	430.000	X	4BU58 33-5CR10-2CA0			66.500	430.000
125	X	4BU58 43-5CR10-2DA0			84.000	449.000	X	4BU58 43-5CR10-2CA0			84.000	449.000
140	X	4BU58 53-5CR10-2DA0			107.000	470.000	X	4BU58 53-5CR10-2CA0			107.000	470.000
160	X	4BU59 33-5CR10-2DA0			114.500	527.000	X	4BU59 33-5CR10-2CA0			114.500	527.000
180	X	4BU60 33-5CR10-2DA0			117.000	590.000	X	4BU60 33-5CR10-2CA0			117.000	590.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers  
with cURus approval

With one input voltage

Rated input voltage

$U_{1N}$  3 AC 480 V, 480 V  $\pm 5\%$ ,

rated output voltage  $U_{2N}$  3 AC  $\nabla$  208 V,

$t_a = 40$  °C/H

cURus

PU (UNIT, SET, M) = 1

PS = 1 unit (You can order this quantity or a multiple thereof.)

PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5				DT <sup>1)</sup>	Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V</b>										
18	C	4BU43 33-2ER10-2DA0		21.500	100.000	C	4BU43 33-2ER10-2CA0		21.500	100.000
20	C	4BU43 43-2ER10-2DA0		27.500	106.000	C	4BU43 43-2ER10-2CA0		27.500	106.000
22.5	B	4BU43 53-2ER10-2DA0		37.000	115.000	C	4BU43 53-2ER10-2CA0		37.000	115.000
25	D	4BU45 33-2ER10-2DA0		27.000	132.000	D	4BU45 33-2ER10-2CA0		27.000	132.000
28	D	4BU45 43-2ER10-2DA0		35.000	140.000	D	4BU45 43-2ER10-2CA0		35.000	140.000
31.5	D	4BU47 33-2ER10-2DA0		31.500	166.000	D	4BU47 33-2ER10-2CA0		31.500	166.000
35.5	D	4BU47 43-2ER10-2DA0		41.000	175.000	D	4BU47 43-2ER10-2CA0		41.000	175.000
40	D	4BU47 53-2ER10-2DA0		55.000	189.000	D	4BU47 53-2ER10-2CA0		55.000	189.000
45	D	4BU52 33-2ER10-2DA0		50.500	187.000	D	4BU52 33-2ER10-2CA0		50.500	187.000
50	D	4BU53 33-2ER10-2DA0		53.500	207.000	D	4BU53 33-2ER10-2CA0		53.500	207.000
56	D	4BU53 43-2ER10-2DA0		69.500	223.000	D	4BU53 43-2ER10-2CA0		69.500	223.000
63	D	4BU54 33-2ER10-2DA0		48.000	263.000	D	4BU54 33-2ER10-2CA0		48.000	263.000
71	D	4BU54 43-2ER10-2DA0		62.000	277.000	D	4BU54 43-2ER10-2CA0		62.000	277.000
80	D	4BU55 33-2ER10-2DA0		66.500	308.000	D	4BU55 33-2ER10-2CA0		66.500	308.000
91	D	4BU56 33-2ER10-2DA0		70.500	347.000	D	4BU56 33-2ER10-2CA0		70.500	347.000
100	D	4BU56 43-2ER10-2DA0		87.000	363.000	D	4BU56 43-2ER10-2CA0		87.000	363.000
112	X	4BU58 33-2ER10-2DA0		61.500	425.000	X	4BU58 33-2ER10-2CA0		61.500	425.000
125	X	4BU58 43-2ER10-2DA0		77.500	442.000	X	4BU58 43-2ER10-2CA0		77.500	442.000
140	X	4BU58 53-2ER10-2DA0		99.000	462.000	X	4BU58 53-2ER10-2CA0		99.000	462.000
160	X	4BU59 33-2ER10-2DA0		106.000	518.000	X	4BU59 33-2ER10-2CA0		106.000	518.000
180	X	4BU60 33-2ER10-2DA0		108.000	581.000	X	4BU60 33-2ER10-2CA0		108.000	581.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V <math>\pm 5\%</math></b>										
18	C	4BU43 33-5ER10-2DA0		23.500	102.000	C	4BU43 33-5ER10-2CA0		23.500	102.000
20	C	4BU43 43-5ER10-2DA0		30.000	109.000	C	4BU43 43-5ER10-2CA0		30.000	109.000
22.5	C	4BU43 53-5ER10-2DA0		40.000	118.000	C	4BU43 53-5ER10-2CA0		40.000	118.000
25	D	4BU45 33-5ER10-2DA0		29.500	135.000	D	4BU45 33-5ER10-2CA0		29.500	135.000
28	D	4BU45 43-5ER10-2DA0		38.000	143.000	D	4BU45 43-5ER10-2CA0		38.000	143.000
31.5	D	4BU47 33-5ER10-2DA0		34.000	169.000	D	4BU47 33-5ER10-2CA0		34.000	169.000
35.5	D	4BU47 43-5ER10-2DA0		44.500	179.000	D	4BU47 43-5ER10-2CA0		44.500	179.000
40	D	4BU47 53-5ER10-2DA0		59.500	194.000	D	4BU47 53-5ER10-2CA0		59.500	194.000
45	D	4BU52 33-5ER10-2DA0		54.500	191.000	D	4BU52 33-5ER10-2CA0		54.500	191.000
50	D	4BU53 33-5ER10-2DA0		58.000	212.000	D	4BU53 33-5ER10-2CA0		58.000	212.000
56	D	4BU53 43-5ER10-2DA0		75.000	229.000	D	4BU53 43-5ER10-2CA0		75.000	229.000
63	D	4BU54 33-5ER10-2DA0		52.000	267.000	D	4BU54 33-5ER10-2CA0		52.000	267.000
71	D	4BU54 43-5ER10-2DA0		67.000	282.000	D	4BU54 43-5ER10-2CA0		67.000	282.000
80	D	4BU55 33-5ER10-2DA0		72.000	314.000	D	4BU55 33-5ER10-2CA0		72.000	314.000
91	D	4BU56 33-5ER10-2DA0		76.500	353.000	D	4BU56 33-5ER10-2CA0		76.500	353.000
100	D	4BU56 43-5ER10-2DA0		94.000	370.000	D	4BU56 43-5ER10-2CA0		94.000	370.000
112	X	4BU58 33-5ER10-2DA0		66.500	430.000	X	4BU58 33-5ER10-2CA0		66.500	430.000
125	X	4BU58 43-5ER10-2DA0		84.000	449.000	X	4BU58 43-5ER10-2CA0		84.000	449.000
140	X	4BU58 53-5ER10-2DA0		107.000	470.000	X	4BU58 53-5ER10-2CA0		107.000	470.000
160	X	4BU59 33-5ER10-2DA0		114.500	527.000	X	4BU59 33-5ER10-2CA0		114.500	527.000
180	X	4BU60 33-5ER10-2DA0		117.000	590.000	X	4BU60 33-5ER10-2CA0		117.000	590.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers  
with cURus approval

With one input voltage

Rated input voltage

$U_{1N}$  3 AC 400 V, 400 V  $\pm 5\%$ ,

rated output voltage  $U_{2N}$  3 AC  $\nabla$  400 V,

$t_a = 40$  °C/H

cURus

PU (UNIT, SET, M) = 1

PS = 1 unit (You can order this  
quantity or a multiple thereof.)

PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5				DT <sup>1)</sup>	Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V</b>										
18	C	4BU43 33-2AA20-2DA0		21.500	100.000	C	4BU43 33-2AA20-2CA0		21.500	100.000
20	B	4BU43 43-2AA20-2DA0		27.500	106.000	C	4BU43 43-2AA20-2CA0		27.500	106.000
22.5	C	4BU43 53-2AA20-2DA0		37.000	115.000	C	4BU43 53-2AA20-2CA0		37.000	115.000
25	D	4BU45 33-2AA20-2DA0		27.000	132.000	D	4BU45 33-2AA20-2CA0		27.000	132.000
28	D	4BU45 43-2AA20-2DA0		35.000	140.000	D	4BU45 43-2AA20-2CA0		35.000	140.000
31.5	D	4BU47 33-2AA20-2DA0		31.500	166.000	D	4BU47 33-2AA20-2CA0		31.500	166.000
35.5	D	4BU47 43-2AA20-2DA0		41.000	175.000	D	4BU47 43-2AA20-2CA0		41.000	175.000
40	D	4BU47 53-2AA20-2DA0		55.000	189.000	D	4BU47 53-2AA20-2CA0		55.000	189.000
45	D	4BU52 33-2AA20-2DA0		50.500	187.000	D	4BU52 33-2AA20-2CA0		50.500	187.000
50	C	4BU53 33-2AA20-2DA0		53.500	207.000	D	4BU53 33-2AA20-2CA0		53.500	207.000
56	D	4BU53 43-2AA20-2DA0		69.500	223.000	D	4BU53 43-2AA20-2CA0		69.500	223.000
63	D	4BU54 33-2AA20-2DA0		48.000	263.000	D	4BU54 33-2AA20-2CA0		48.000	263.000
71	C	4BU54 43-2AA20-2DA0		65.000	277.000	D	4BU54 43-2AA20-2CA0		62.000	277.000
80	D	4BU55 33-2AA20-2DA0		66.500	308.000	D	4BU55 33-2AA20-2CA0		66.500	308.000
91	D	4BU56 33-2AA20-2DA0		70.500	347.000	D	4BU56 33-2AA20-2CA0		70.500	347.000
100	D	4BU56 43-2AA20-2DA0		87.000	363.000	D	4BU56 43-2AA20-2CA0		87.000	363.000
112	X	4BU58 33-2AA20-2DA0		61.500	425.000	X	4BU58 33-2AA20-2CA0		61.500	425.000
125	X	4BU58 43-2AA20-2DA0		77.500	442.000	X	4BU58 43-2AA20-2CA0		77.500	442.000
140	X	4BU58 53-2AA20-2DA0		99.000	462.000	X	4BU58 53-2AA20-2CA0		99.000	462.000
160	X	4BU59 33-2AA20-2DA0		106.000	518.000	X	4BU59 33-2AA20-2CA0		106.000	518.000
180	X	4BU60 33-2AA20-2DA0		108.000	581.000	X	4BU60 33-2AA20-2CA0		108.000	581.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V <math>\pm 5\%</math></b>										
18	C	4BU43 33-5AA20-2DA0		23.500	102.000	C	4BU43 33-5AA20-2CA0		23.500	102.000
20	B	4BU43 43-5AA20-2DA0		30.000	120.000	C	4BU43 43-5AA20-2CA0		30.000	109.000
22.5	C	4BU43 53-5AA20-2DA0		40.000	118.000	C	4BU43 53-5AA20-2CA0		40.000	118.000
25	D	4BU45 33-5AA20-2DA0		29.500	135.000	D	4BU45 33-5AA20-2CA0		29.500	135.000
28	D	4BU45 43-5AA20-2DA0		38.000	143.000	D	4BU45 43-5AA20-2CA0		38.000	143.000
31.5	D	4BU47 33-5AA20-2DA0		34.000	169.000	D	4BU47 33-5AA20-2CA0		34.000	169.000
35.5	C	4BU47 43-5AA20-2DA0		44.500	179.000	D	4BU47 43-5AA20-2CA0		44.500	179.000
40	D	4BU47 53-5AA20-2DA0		59.500	194.000	D	4BU47 53-5AA20-2CA0		59.500	194.000
45	D	4BU52 33-5AA20-2DA0		54.500	191.000	D	4BU52 33-5AA20-2CA0		54.500	191.000
50	C	4BU53 33-5AA20-2DA0		58.000	212.000	D	4BU53 33-5AA20-2CA0		58.000	212.000
56	D	4BU53 43-5AA20-2DA0		75.000	229.000	D	4BU53 43-5AA20-2CA0		75.000	229.000
63	D	4BU54 33-5AA20-2DA0		52.000	267.000	D	4BU54 33-5AA20-2CA0		52.000	267.000
71	D	4BU54 43-5AA20-2DA0		67.000	282.000	D	4BU54 43-5AA20-2CA0		67.000	282.000
80	D	4BU55 33-5AA20-2DA0		72.000	314.000	D	4BU55 33-5AA20-2CA0		72.000	314.000
91	D	4BU56 33-5AA20-2DA0		76.500	353.000	D	4BU56 33-5AA20-2CA0		76.500	353.000
100	D	4BU56 43-5AA20-2DA0		94.000	370.000	D	4BU56 43-5AA20-2CA0		94.000	370.000
112	X	4BU58 33-5AA20-2DA0		66.500	430.000	X	4BU58 33-5AA20-2CA0		66.500	430.000
125	X	4BU58 43-5AA20-2DA0		84.000	449.000	X	4BU58 43-5AA20-2CA0		84.000	449.000
140	X	4BU58 53-5AA20-2DA0		107.000	470.000	X	4BU58 53-5AA20-2CA0		107.000	470.000
160	X	4BU59 33-5AA20-2DA0		114.500	527.000	X	4BU59 33-5AA20-2CA0		114.500	527.000
180	X	4BU60 33-5AA20-2DA0		117.000	590.000	X	4BU60 33-5AA20-2CA0		117.000	590.000

More products with higher ratings and degrees of protection  
IP20 and IP23 can be found in the interactive Catalog CA 01 and  
in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers  
with cURus approval

With one input voltage

Rated input voltage

$U_{1N}$  3 AC 440 V, 3 AC 440 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  3 AC  $\nabla$  400 V,  
 $t_a = 40$  °C/H

cURUS

PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this  
quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	DT <sup>1)</sup>	Vector group Dyn5				DT <sup>1)</sup>	Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
kVA										
Rated input voltage $U_{1N}$ 3 AC 440 V										
18	C	4BU43 33-2CA20-2DA0		21.500	100.000	C	4BU43 33-2CA20-2CA0		21.500	100.000
20	C	4BU43 43-2CA20-2DA0		27.500	106.000	C	4BU43 43-2CA20-2CA0		27.500	106.000
22.5	C	4BU43 53-2CA20-2DA0		37.000	115.000	C	4BU43 53-2CA20-2CA0		37.000	115.000
25	D	4BU45 33-2CA20-2DA0		27.000	132.000	D	4BU45 33-2CA20-2CA0		27.000	132.000
28	D	4BU45 43-2CA20-2DA0		35.000	140.000	D	4BU45 43-2CA20-2CA0		35.000	140.000
31.5	D	4BU47 33-2CA20-2DA0		31.500	166.000	D	4BU47 33-2CA20-2CA0		31.500	166.000
35.5	D	4BU47 43-2CA20-2DA0		41.000	175.000	D	4BU47 43-2CA20-2CA0		41.000	175.000
40	D	4BU47 53-2CA20-2DA0		55.000	189.000	D	4BU47 53-2CA20-2CA0		55.000	189.000
45	D	4BU52 33-2CA20-2DA0		50.500	187.000	D	4BU52 33-2CA20-2CA0		50.500	187.000
50	D	4BU53 33-2CA20-2DA0		53.500	207.000	D	4BU53 33-2CA20-2CA0		53.500	207.000
56	D	4BU53 43-2CA20-2DA0		69.500	223.000	D	4BU53 43-2CA20-2CA0		69.500	223.000
63	D	4BU54 33-2CA20-2DA0		48.000	263.000	D	4BU54 33-2CA20-2CA0		48.000	263.000
71	D	4BU54 43-2CA20-2DA0		62.000	277.000	D	4BU54 43-2CA20-2CA0		62.000	277.000
80	D	4BU55 33-2CA20-2DA0		66.500	308.000	D	4BU55 33-2CA20-2CA0		66.500	308.000
91	D	4BU56 33-2CA20-2DA0		70.500	347.000	D	4BU56 33-2CA20-2CA0		70.500	347.000
100	D	4BU56 43-2CA20-2DA0		87.000	363.000	D	4BU56 43-2CA20-2CA0		87.000	363.000
112	X	4BU58 33-2CA20-2DA0		61.500	425.000	X	4BU58 33-2CA20-2CA0		61.500	425.000
125	X	4BU58 43-2CA20-2DA0		77.500	442.000	X	4BU58 43-2CA20-2CA0		77.500	442.000
140	X	4BU58 53-2CA20-2DA0		99.000	462.000	X	4BU58 53-2CA20-2CA0		99.000	462.000
160	X	4BU59 33-2CA20-2DA0		106.000	518.000	X	4BU59 33-2CA20-2CA0		106.000	518.000
180	X	4BU60 33-2CA20-2DA0		108.000	581.000	X	4BU60 33-2CA20-2CA0		108.000	581.000
Rated input voltage $U_{1N}$ 3 AC 440 V $\pm 5\%$										
18	C	4BU43 33-5CA20-2DA0		23.500	102.000	C	4BU43 33-5CA20-2CA0		23.500	102.000
20	C	4BU43 43-5CA20-2DA0		30.000	109.000	C	4BU43 43-5CA20-2CA0		30.000	109.000
22.5	C	4BU43 53-5CA20-2DA0		40.000	118.000	C	4BU43 53-5CA20-2CA0		40.000	118.000
25	D	4BU45 33-5CA20-2DA0		29.500	135.000	D	4BU45 33-5CA20-2CA0		29.500	135.000
28	D	4BU45 43-5CA20-2DA0		38.000	143.000	D	4BU45 43-5CA20-2CA0		38.000	143.000
31.5	D	4BU47 33-5CA20-2DA0		34.000	169.000	D	4BU47 33-5CA20-2CA0		34.000	169.000
35.5	D	4BU47 43-5CA20-2DA0		44.500	179.000	D	4BU47 43-5CA20-2CA0		44.500	179.000
40	D	4BU47 53-5CA20-2DA0		59.500	194.000	D	4BU47 53-5CA20-2CA0		59.500	194.000
45	D	4BU52 33-5CA20-2DA0		54.500	191.000	D	4BU52 33-5CA20-2CA0		54.500	191.000
50	D	4BU53 33-5CA20-2DA0		58.000	212.000	D	4BU53 33-5CA20-2CA0		58.000	212.000
56	C	4BU53 43-5CA20-2DA0		75.000	229.000	D	4BU53 43-5CA20-2CA0		75.000	229.000
63	D	4BU54 33-5CA20-2DA0		52.000	267.000	D	4BU54 33-5CA20-2CA0		52.000	267.000
71	D	4BU54 43-5CA20-2DA0		67.000	282.000	D	4BU54 43-5CA20-2CA0		67.000	282.000
80	D	4BU55 33-5CA20-2DA0		72.000	314.000	D	4BU55 33-5CA20-2CA0		72.000	314.000
91	D	4BU56 33-5CA20-2DA0		76.500	353.000	D	4BU56 33-5CA20-2CA0		76.500	353.000
100	D	4BU56 43-5CA20-2DA0		94.000	370.000	D	4BU56 43-5CA20-2CA0		94.000	370.000
112	X	4BU58 33-5CA20-2DA0		66.500	430.000	X	4BU58 33-5CA20-2CA0		66.500	430.000
125	X	4BU58 43-5CA20-2DA0		84.000	449.000	X	4BU58 43-5CA20-2CA0		84.000	449.000
140	X	4BU58 53-5CA20-2DA0		107.000	470.000	X	4BU58 53-5CA20-2CA0		107.000	470.000
160	X	4BU59 33-5CA20-2DA0		114.500	527.000	X	4BU59 33-5CA20-2CA0		114.500	527.000
180	X	4BU60 33-5CA20-2DA0		117.000	590.000	X	4BU60 33-5CA20-2CA0		117.000	590.000

More products with higher ratings and degrees of protection  
IP20 and IP23 can be found in the interactive Catalog CA 01 and  
in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers  
with cURus approval

With one input voltage

Rated input voltage

$U_{1N}$  3 AC 480 V, 480 V  $\pm 5\%$ ,

rated output voltage  $U_{2N}$  3 AC  $\nabla$  400 V,

$t_a = 40$  °C/H

cURus

PU (UNIT, SET, M) = 1

PS = 1 unit (You can order this  
quantity or a multiple thereof.)

PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5				DT <sup>1)</sup>	Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V</b>										
18	B	4BU43 33-2EA20-2DA0		21.500	100.000	C	4BU43 33-2EA20-2CA0		21.500	100.000
20	C	4BU43 43-2EA20-2DA0		27.500	106.000	C	4BU43 43-2EA20-2CA0		27.500	106.000
22.5	B	4BU43 53-2EA20-2DA0		37.000	115.000	C	4BU43 53-2EA20-2CA0		37.000	115.000
25	D	4BU45 33-2EA20-2DA0		27.000	132.000	D	4BU45 33-2EA20-2CA0		27.000	132.000
28	D	4BU45 43-2EA20-2DA0		35.000	140.000	D	4BU45 43-2EA20-2CA0		35.000	140.000
31.5	C	4BU47 33-2EA20-2DA0		31.500	166.000	D	4BU47 33-2EA20-2CA0		31.500	166.000
35.5	D	4BU47 43-2EA20-2DA0		41.000	175.000	D	4BU47 43-2EA20-2CA0		41.000	175.000
40	D	4BU47 53-2EA20-2DA0		55.000	189.000	D	4BU47 53-2EA20-2CA0		55.000	189.000
45	D	4BU52 33-2EA20-2DA0		50.500	187.000	D	4BU52 33-2EA20-2CA0		50.500	187.000
50	D	4BU53 33-2EA20-2DA0		53.500	207.000	D	4BU53 33-2EA20-2CA0		53.500	207.000
56	D	4BU53 43-2EA20-2DA0		69.500	223.000	D	4BU53 43-2EA20-2CA0		69.500	223.000
63	D	4BU54 33-2EA20-2DA0		48.000	263.000	D	4BU54 33-2EA20-2CA0		48.000	263.000
71	D	4BU54 43-2EA20-2DA0		62.000	277.000	D	4BU54 43-2EA20-2CA0		62.000	277.000
80	D	4BU55 33-2EA20-2DA0		66.500	308.000	D	4BU55 33-2EA20-2CA0		66.500	308.000
91	D	4BU56 33-2EA20-2DA0		70.500	347.000	D	4BU56 33-2EA20-2CA0		70.500	347.000
100	D	4BU56 43-2EA20-2DA0		87.000	363.000	D	4BU56 43-2EA20-2CA0		87.000	363.000
112	X	4BU58 33-2EA20-2DA0		61.500	425.000	X	4BU58 33-2EA20-2CA0		61.500	425.000
125	X	4BU58 43-2EA20-2DA0		77.500	442.000	X	4BU58 43-2EA20-2CA0		77.500	442.000
140	X	4BU58 53-2EA20-2DA0		99.000	462.000	X	4BU58 53-2EA20-2CA0		99.000	462.000
160	X	4BU59 33-2EA20-2DA0		106.000	518.000	X	4BU59 33-2EA20-2CA0		106.000	518.000
180	X	4BU60 33-2EA20-2DA0		108.000	581.000	X	4BU60 33-2EA20-2CA0		108.000	581.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V <math>\pm 5\%</math></b>										
18	B	4BU43 33-5EA20-2DA0		23.500	115.000	C	4BU43 33-5EA20-2CA0		23.500	102.000
20	B	4BU43 43-5EA20-2DA0		30.000	109.000	C	4BU43 43-5EA20-2CA0		30.000	109.000
22.5	B	4BU43 53-5EA20-2DA0		42.410	120.000	C	4BU43 53-5EA20-2CA0		40.000	118.000
25	C	4BU45 33-5EA20-2DA0		29.500	135.000	D	4BU45 33-5EA20-2CA0		29.500	135.000
28	D	4BU45 43-5EA20-2DA0		38.000	143.000	D	4BU45 43-5EA20-2CA0		38.000	143.000
31.5	D	4BU47 33-5EA20-2DA0		34.000	169.000	D	4BU47 33-5EA20-2CA0		34.000	169.000
35.5	D	4BU47 43-5EA20-2DA0		44.500	179.000	D	4BU47 43-5EA20-2CA0		44.500	179.000
40	D	4BU47 53-5EA20-2DA0		59.500	194.000	D	4BU47 53-5EA20-2CA0		59.500	194.000
45	D	4BU52 33-5EA20-2DA0		54.500	191.000	D	4BU52 33-5EA20-2CA0		54.500	191.000
50	D	4BU53 33-5EA20-2DA0		58.000	212.000	D	4BU53 33-5EA20-2CA0		58.000	212.000
56	D	4BU53 43-5EA20-2DA0		75.000	229.000	C	4BU53 43-5EA20-2CA0		75.000	229.000
63	D	4BU54 33-5EA20-2DA0		52.000	267.000	D	4BU54 33-5EA20-2CA0		52.000	267.000
71	D	4BU54 43-5EA20-2DA0		67.000	282.000	D	4BU54 43-5EA20-2CA0		67.000	282.000
80	D	4BU55 33-5EA20-2DA0		72.000	314.000	D	4BU55 33-5EA20-2CA0		72.000	314.000
91	C	4BU56 33-5EA20-2DA0		76.500	353.000	D	4BU56 33-5EA20-2CA0		76.500	353.000
100	D	4BU56 43-5EA20-2DA0		94.000	370.000	D	4BU56 43-5EA20-2CA0		94.000	370.000
112	X	4BU58 33-5EA20-2DA0		66.500	430.000	X	4BU58 33-5EA20-2CA0		66.500	430.000
125	X	4BU58 43-5EA20-2DA0		84.000	449.000	X	4BU58 43-5EA20-2CA0		84.000	449.000
140	X	4BU58 53-5EA20-2DA0		107.000	470.000	X	4BU58 53-5EA20-2CA0		107.000	470.000
160	X	4BU59 33-5EA20-2DA0		114.500	527.000	X	4BU59 33-5EA20-2CA0		114.500	527.000
180	X	4BU60 33-5EA20-2DA0		117.000	590.000	X	4BU60 33-5EA20-2CA0		117.000	590.000

More products with higher ratings and degrees of protection  
IP20 and IP23 can be found in the interactive Catalog CA 01 and  
in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers  
with cURus approval

With one input voltage

Rated input voltage

$U_{1N}$  3 AC 400 V, 400 V  $\pm 5\%$ , 440 V, 440 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  3 AC  $\nabla$  208 V,  
 $t_a = 55^\circ\text{C/H}$

cURUS

PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this  
quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	DT <sup>1)</sup>	Vector group Dyn5				Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V</b>									
18	C	4BU43 33-2AR13-2DA0		24.500	103.000	C	4BU43 33-2AR13-2CA0	24.500	103.000
20	C	4BU43 43-2AR13-2DA0		32.000	110.000	C	4BU43 43-2AR13-2CA0	32.000	110.000
22.5	C	4BU43 53-2AR13-2DA0		43.000	121.000	C	4BU43 53-2AR13-2CA0	43.000	121.000
25	D	4BU45 33-2AR13-2DA0		31.000	136.000	D	4BU45 33-2AR13-2CA0	31.000	136.000
28	D	4BU45 43-2AR13-2DA0		41.000	146.000	D	4BU45 43-2AR13-2CA0	41.000	146.000
31.5	D	4BU47 33-2AR13-2DA0		36.000	170.000	D	4BU47 33-2AR13-2CA0	36.000	170.000
35.5	D	4BU47 43-2AR13-2DA0		48.000	182.000	D	4BU47 43-2AR13-2CA0	48.000	182.000
40	D	4BU47 53-2AR13-2DA0		64.500	199.000	D	4BU47 53-2AR13-2CA0	64.500	199.000
45	D	4BU52 33-2AR13-2DA0		58.000	194.000	D	4BU52 33-2AR13-2CA0	58.000	194.000
50	D	4BU53 33-2AR13-2DA0		61.500	215.000	D	4BU53 33-2AR13-2CA0	61.500	215.000
56	D	4BU53 43-2AR13-2DA0		80.000	233.000	D	4BU53 43-2AR13-2CA0	80.000	233.000
63	D	4BU54 33-2AR13-2DA0		54.000	269.000	D	4BU54 33-2AR13-2CA0	54.000	269.000
71	D	4BU54 43-2AR13-2DA0		71.000	286.000	D	4BU54 43-2AR13-2CA0	71.000	286.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V <math>\pm 5\%</math></b>									
18	C	4BU43 33-5AR13-2DA0		26.500	105.000	C	4BU43 33-5AR13-2CA0	26.500	105.000
20	C	4BU43 43-5AR13-2DA0		35.000	113.000	C	4BU43 43-5AR13-2CA0	35.000	113.000
22.5	C	4BU43 53-5AR13-2DA0		46.500	125.000	C	4BU43 53-5AR13-2CA0	46.500	125.000
25	D	4BU45 33-5AR13-2DA0		33.500	139.000	D	4BU45 33-5AR13-2CA0	33.500	139.000
28	D	4BU45 43-5AR13-2DA0		44.500	150.000	D	4BU45 43-5AR13-2CA0	44.500	150.000
31.5	D	4BU47 33-5AR13-2DA0		39.000	173.000	D	4BU47 33-5AR13-2CA0	39.000	173.000
35.5	D	4BU47 43-5AR13-2DA0		52.000	186.000	D	4BU47 43-5AR13-2CA0	52.000	186.000
40	D	4BU47 53-5AR13-2DA0		70.000	206.000	D	4BU47 53-5AR13-2CA0	70.000	206.000
45	D	4BU52 33-5AR13-2DA0		63.000	199.000	D	4BU52 33-5AR13-2CA0	63.000	199.000
50	C	4BU53 33-5AR13-2DA0		72.000	220.000	D	4BU53 33-5AR13-2CA0	66.500	220.000
56	D	4BU53 43-5AR13-2DA0		86.500	240.000	D	4BU53 43-5AR13-2CA0	86.500	240.000
63	D	4BU54 33-5AR13-2DA0		58.500	274.000	D	4BU54 33-5AR13-2CA0	58.500	274.000
71	D	4BU54 43-5AR13-2DA0		77.000	292.000	D	4BU54 43-5AR13-2CA0	77.000	292.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V</b>									
18	C	4BU43 33-2CR13-2DA0		24.500	103.000	C	4BU43 33-2CR13-2CA0	24.500	103.000
20	C	4BU43 43-2CR13-2DA0		32.000	110.000	C	4BU43 43-2CR13-2CA0	32.000	110.000
22.5	C	4BU43 53-2CR13-2DA0		43.000	121.000	C	4BU43 53-2CR13-2CA0	43.000	121.000
25	D	4BU45 33-2CR13-2DA0		31.000	136.000	D	4BU45 33-2CR13-2CA0	31.000	136.000
28	D	4BU45 43-2CR13-2DA0		41.000	146.000	D	4BU45 43-2CR13-2CA0	41.000	146.000
31.5	D	4BU47 33-2CR13-2DA0		36.000	170.000	D	4BU47 33-2CR13-2CA0	36.000	170.000
35.5	D	4BU47 43-2CR13-2DA0		48.000	182.000	D	4BU47 43-2CR13-2CA0	48.000	182.000
40	D	4BU47 53-2CR13-2DA0		64.500	199.000	D	4BU47 53-2CR13-2CA0	64.500	199.000
45	D	4BU52 33-2CR13-2DA0		58.000	194.000	D	4BU52 33-2CR13-2CA0	58.000	194.000
50	D	4BU53 33-2CR13-2DA0		61.500	215.000	D	4BU53 33-2CR13-2CA0	61.500	215.000
56	D	4BU53 43-2CR13-2DA0		80.000	233.000	D	4BU53 43-2CR13-2CA0	80.000	233.000
63	D	4BU54 33-2CR13-2DA0		54.000	269.000	D	4BU54 33-2CR13-2CA0	54.000	269.000
71	D	4BU54 43-2CR13-2DA0		71.000	286.000	D	4BU54 43-2CR13-2CA0	71.000	286.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V <math>\pm 5\%</math></b>									
18	C	4BU43 33-5CR13-2DA0		26.500	105.000	C	4BU43 33-5CR13-2CA0	26.500	105.000
20	C	4BU43 43-5CR13-2DA0		35.000	113.000	C	4BU43 43-5CR13-2CA0	35.000	113.000
22.5	C	4BU43 53-5CR13-2DA0		46.500	125.000	C	4BU43 53-5CR13-2CA0	46.500	125.000
25	D	4BU45 33-5CR13-2DA0		33.500	139.000	D	4BU45 33-5CR13-2CA0	33.500	139.000
28	D	4BU45 43-5CR13-2DA0		44.500	150.000	D	4BU45 43-5CR13-2CA0	44.500	150.000
31.5	D	4BU47 33-5CR13-2DA0		39.000	173.000	D	4BU47 33-5CR13-2CA0	39.000	173.000
35.5	D	4BU47 43-5CR13-2DA0		52.000	186.000	D	4BU47 43-5CR13-2CA0	52.000	186.000
40	D	4BU47 53-5CR13-2DA0		70.000	206.000	D	4BU47 53-5CR13-2CA0	70.000	206.000
45	D	4BU52 33-5CR13-2DA0		63.000	199.000	D	4BU52 33-5CR13-2CA0	63.000	199.000
50	D	4BU53 33-5CR13-2DA0		66.500	220.000	D	4BU53 33-5CR13-2CA0	66.500	220.000
56	D	4BU53 43-5CR13-2DA0		86.500	240.000	D	4BU53 43-5CR13-2CA0	86.500	240.000
63	D	4BU54 33-5CR13-2DA0		58.500	274.000	D	4BU54 33-5CR13-2CA0	58.500	274.000
71	D	4BU54 43-5CR13-2DA0		77.000	292.000	D	4BU54 43-5CR13-2CA0	77.000	292.000

More products with higher ratings and degrees of protection  
IP20 and IP23 can be found in the interactive Catalog CA 01 and  
in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".



# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers  
with cURus approval

### With one input voltage

#### Rated input voltage

$U_{1N}$  3 AC 480 V, 480 V  $\pm 5\%$ ,

rated output voltage  $U_{2N}$  3 AC  $\nabla$  208 V,

$t_a = 55^\circ\text{C/H}$

cURus

PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT <sup>1)</sup>	Vector group Yyn0			
		Order No.	Price per PU					Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V</b>											
18	C	4BU43 33-2ER13-2DA0			24.500	103.000	C	4BU43 33-2ER13-2CA0		24.500	103.000
20	C	4BU43 43-2ER13-2DA0			32.000	110.000	C	4BU43 43-2ER13-2CA0		32.000	110.000
22.5	C	4BU43 53-2ER13-2DA0			43.000	121.000	C	4BU43 53-2ER13-2CA0		43.000	121.000
25	D	4BU45 33-2ER13-2DA0			31.000	136.000	D	4BU45 33-2ER13-2CA0		31.000	136.000
28	D	4BU45 43-2ER13-2DA0			41.000	146.000	D	4BU45 43-2ER13-2CA0		41.000	146.000
31.5	D	4BU47 33-2ER13-2DA0			36.000	170.000	D	4BU47 33-2ER13-2CA0		36.000	170.000
35.5	D	4BU47 43-2ER13-2DA0			48.000	182.000	D	4BU47 43-2ER13-2CA0		48.000	182.000
40	D	4BU47 53-2ER13-2DA0			64.500	199.000	D	4BU47 53-2ER13-2CA0		64.500	199.000
45	D	4BU52 33-2ER13-2DA0			58.000	194.000	D	4BU52 33-2ER13-2CA0		58.000	194.000
50	D	4BU53 33-2ER13-2DA0			61.500	215.000	D	4BU53 33-2ER13-2CA0		61.500	215.000
56	D	4BU53 43-2ER13-2DA0			80.000	233.000	D	4BU53 43-2ER13-2CA0		80.000	233.000
63	D	4BU54 33-2ER13-2DA0			54.000	269.000	D	4BU54 33-2ER13-2CA0		54.000	269.000
71	D	4BU54 43-2ER13-2DA0			71.000	286.000	D	4BU54 43-2ER13-2CA0		71.000	286.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V <math>\pm 5\%</math></b>											
18	C	4BU43 33-5ER13-2DA0			26.500	105.000	C	4BU43 33-5ER13-2CA0		26.500	105.000
20	C	4BU43 43-5ER13-2DA0			35.000	113.000	C	4BU43 43-5ER13-2CA0		35.000	113.000
22.5	B	4BU43 53-5ER13-2DA0			46.500	125.000	C	4BU43 53-5ER13-2CA0		46.500	125.000
25	D	4BU45 33-5ER13-2DA0			33.500	139.000	D	4BU45 33-5ER13-2CA0		33.500	139.000
28	D	4BU45 43-5ER13-2DA0			44.500	150.000	D	4BU45 43-5ER13-2CA0		44.500	150.000
31.5	D	4BU47 33-5ER13-2DA0			39.000	173.000	D	4BU47 33-5ER13-2CA0		39.000	173.000
35.5	D	4BU47 43-5ER13-2DA0			52.000	186.000	D	4BU47 43-5ER13-2CA0		52.000	186.000
40	D	4BU47 53-5ER13-2DA0			70.000	206.000	D	4BU47 53-5ER13-2CA0		70.000	206.000
45	D	4BU52 33-5ER13-2DA0			63.000	199.000	D	4BU52 33-5ER13-2CA0		63.000	199.000
50	D	4BU53 33-5ER13-2DA0			66.500	220.000	D	4BU53 33-5ER13-2CA0		66.500	220.000
56	D	4BU53 43-5ER13-2DA0			86.500	240.000	D	4BU53 43-5ER13-2CA0		86.500	240.000
63	D	4BU54 33-5ER13-2DA0			58.500	274.000	D	4BU54 33-5ER13-2CA0		58.500	274.000
71	D	4BU54 43-5ER13-2DA0			77.000	292.000	D	4BU54 43-5ER13-2CA0		77.000	292.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers  
with cURus approval

With one input voltage

Rated input voltage

$U_{1N}$  3 AC 400 V, 400 V  $\pm 5\%$ , 440 V, 440 V  $\pm 5\%$ ,  
rated output voltage  $U_{2N}$  3 AC  $\nabla$  400 V,  
 $t_a = 55\text{ }^\circ\text{C/H}$

cURus

PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this  
quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$ kVA	DT <sup>1)</sup>	Vector group Dyn5				DT <sup>1)</sup>	Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V</b>										
18	B	4BU43 33-2AA23-2DA0		24.500	105.000	C	4BU43 33-2AA23-2CA0		24.500	103.000
20	C	4BU43 43-2AA23-2DA0		32.000	110.000	C	4BU43 43-2AA23-2CA0		32.000	110.000
22.5	C	4BU43 53-2AA23-2DA0		43.000	121.000	C	4BU43 53-2AA23-2CA0		43.000	121.000
25	D	4BU45 33-2AA23-2DA0		31.000	136.000	D	4BU45 33-2AA23-2CA0		31.000	136.000
28	C	4BU45 43-2AA23-2DA0		41.000	146.000	D	4BU45 43-2AA23-2CA0		41.000	146.000
31.5	D	4BU47 33-2AA23-2DA0		36.000	170.000	D	4BU47 33-2AA23-2CA0		36.000	170.000
35.5	D	4BU47 43-2AA23-2DA0		48.000	182.000	D	4BU47 43-2AA23-2CA0		48.000	182.000
40	D	4BU47 53-2AA23-2DA0		64.500	199.000	D	4BU47 53-2AA23-2CA0		64.500	199.000
45	C	4BU52 33-2AA23-2DA0		58.000	194.000	D	4BU52 33-2AA23-2CA0		58.000	194.000
50	D	4BU53 33-2AA23-2DA0		61.500	215.000	D	4BU53 33-2AA23-2CA0		61.500	215.000
56	D	4BU53 43-2AA23-2DA0		80.000	233.000	D	4BU53 43-2AA23-2CA0		80.000	233.000
63	D	4BU54 33-2AA23-2DA0		54.000	269.000	D	4BU54 33-2AA23-2CA0		54.000	269.000
71	D	4BU54 43-2AA23-2DA0		71.000	286.000	D	4BU54 43-2AA23-2CA0		71.000	286.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 400 V <math>\pm 5\%</math></b>										
18	C	4BU43 33-5AA23-2DA0		26.500	105.000	C	4BU43 33-5AA23-2CA0		26.500	105.000
20	C	4BU43 43-5AA23-2DA0		35.000	113.000	C	4BU43 43-5AA23-2CA0		35.000	113.000
22.5	C	4BU43 53-5AA23-2DA0		46.500	125.000	C	4BU43 53-5AA23-2CA0		46.500	125.000
25	D	4BU45 33-5AA23-2DA0		33.500	139.000	D	4BU45 33-5AA23-2CA0		33.500	139.000
28	D	4BU45 43-5AA23-2DA0		44.500	150.000	D	4BU45 43-5AA23-2CA0		44.500	150.000
31.5	D	4BU47 33-5AA23-2DA0		39.000	173.000	D	4BU47 33-5AA23-2CA0		39.000	173.000
35.5	D	4BU47 43-5AA23-2DA0		52.000	186.000	D	4BU47 43-5AA23-2CA0		52.000	186.000
40	D	4BU47 53-5AA23-2DA0		70.000	206.000	D	4BU47 53-5AA23-2CA0		70.000	206.000
45	D	4BU52 33-5AA23-2DA0		63.000	199.000	D	4BU52 33-5AA23-2CA0		63.000	199.000
50	D	4BU53 33-5AA23-2DA0		66.500	220.000	D	4BU53 33-5AA23-2CA0		66.500	220.000
56	D	4BU53 43-5AA23-2DA0		86.500	240.000	D	4BU53 43-5AA23-2CA0		86.500	240.000
63	D	4BU54 33-5AA23-2DA0		58.500	274.000	D	4BU54 33-5AA23-2CA0		58.500	274.000
71	D	4BU54 43-5AA23-2DA0		77.000	292.000	D	4BU54 43-5AA23-2CA0		77.000	292.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V</b>										
18	C	4BU43 33-2CA23-2DA0		24.500	103.000	C	4BU43 33-2CA23-2CA0		24.500	103.000
20	C	4BU43 43-2CA23-2DA0		32.000	110.000	C	4BU43 43-2CA23-2CA0		32.000	110.000
22.5	C	4BU43 53-2CA23-2DA0		43.000	121.000	C	4BU43 53-2CA23-2CA0		43.000	121.000
25	D	4BU45 33-2CA23-2DA0		31.000	136.000	D	4BU45 33-2CA23-2CA0		31.000	136.000
28	D	4BU45 43-2CA23-2DA0		41.000	146.000	D	4BU45 43-2CA23-2CA0		41.000	146.000
31.5	D	4BU47 33-2CA23-2DA0		36.000	170.000	D	4BU47 33-2CA23-2CA0		36.000	170.000
35.5	D	4BU47 43-2CA23-2DA0		48.000	182.000	D	4BU47 43-2CA23-2CA0		48.000	182.000
40	D	4BU47 53-2CA23-2DA0		64.500	199.000	D	4BU47 53-2CA23-2CA0		64.500	199.000
45	D	4BU52 33-2CA23-2DA0		58.000	194.000	D	4BU52 33-2CA23-2CA0		58.000	194.000
50	D	4BU53 33-2CA23-2DA0		61.500	215.000	D	4BU53 33-2CA23-2CA0		61.500	215.000
56	D	4BU53 43-2CA23-2DA0		80.000	233.000	D	4BU53 43-2CA23-2CA0		80.000	233.000
63	D	4BU54 33-2CA23-2DA0		54.000	269.000	D	4BU54 33-2CA23-2CA0		54.000	269.000
71	D	4BU54 43-2CA23-2DA0		71.000	286.000	D	4BU54 43-2CA23-2CA0		71.000	286.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 440 V <math>\pm 5\%</math></b>										
18	C	4BU43 33-5CA23-2DA0		26.500	105.000	C	4BU43 33-5CA23-2CA0		26.500	105.000
20	C	4BU43 43-5CA23-2DA0		35.000	113.000	C	4BU43 43-5CA23-2CA0		35.000	113.000
22.5	C	4BU43 53-5CA23-2DA0		46.500	125.000	C	4BU43 53-5CA23-2CA0		46.500	125.000
25	D	4BU45 33-5CA23-2DA0		33.500	139.000	D	4BU45 33-5CA23-2CA0		33.500	139.000
28	D	4BU45 43-5CA23-2DA0		44.500	150.000	D	4BU45 43-5CA23-2CA0		44.500	150.000
31.5	D	4BU47 33-5CA23-2DA0		39.000	173.000	D	4BU47 33-5CA23-2CA0		39.000	173.000
35.5	D	4BU47 43-5CA23-2DA0		52.000	186.000	D	4BU47 43-5CA23-2CA0		52.000	186.000
40	D	4BU47 53-5CA23-2DA0		70.000	206.000	D	4BU47 53-5CA23-2CA0		70.000	206.000
45	D	4BU52 33-5CA23-2DA0		63.000	199.000	D	4BU52 33-5CA23-2CA0		63.000	199.000
50	D	4BU53 33-5CA23-2DA0		66.500	220.000	D	4BU53 33-5CA23-2CA0		66.500	220.000
56	D	4BU53 43-5CA23-2DA0		86.500	240.000	D	4BU53 43-5CA23-2CA0		86.500	240.000
63	D	4BU54 33-5CA23-2DA0		58.500	274.000	D	4BU54 33-5CA23-2CA0		58.500	274.000
71	D	4BU54 43-5CA23-2DA0		77.000	292.000	D	4BU54 43-5CA23-2CA0		77.000	292.000

More products with higher ratings and degrees of protection  
IP20 and IP23 can be found in the interactive Catalog CA 01 and  
in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

4BU matching transformers  
with cURus approval

With one input voltage

Rated input voltage

$U_{1N}$  3 AC 480 V, 480 V  $\pm 5$  %,

rated output voltage  $U_{2N}$  3 AC  $\nabla$  400 V,

$t_a = 55$  °C/H

cURus

PU (UNIT, SET, M) = 1  
PS = 1 unit (You can order this quantity or a multiple thereof.)  
PG = 104

Rated power $P_n$	DT <sup>1)</sup>	Vector group Dyn5				DT <sup>1)</sup>	Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.		Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA				kg	kg			kg	kg	
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V</b>										
18	C	4BU43 33-2EA23-2DA0		24.500	103.000	C	4BU43 33-2EA23-2CA0		24.500	103.000
20	C	4BU43 43-2EA23-2DA0		32.000	110.000	C	4BU43 43-2EA23-2CA0		32.000	110.000
22.5	C	4BU43 53-2EA23-2DA0		43.000	121.000	C	4BU43 53-2EA23-2CA0		43.000	121.000
25	D	4BU45 33-2EA23-2DA0		31.000	136.000	D	4BU45 33-2EA23-2CA0		31.000	136.000
28	C	4BU45 43-2EA23-2DA0		43.000	146.000	D	4BU45 43-2EA23-2CA0		41.000	146.000
31.5	D	4BU47 33-2EA23-2DA0		36.000	170.000	D	4BU47 33-2EA23-2CA0		36.000	170.000
35.5	D	4BU47 43-2EA23-2DA0		48.000	182.000	D	4BU47 43-2EA23-2CA0		48.000	182.000
40	D	4BU47 53-2EA23-2DA0		64.500	199.000	D	4BU47 53-2EA23-2CA0		64.500	199.000
45	D	4BU52 33-2EA23-2DA0		58.000	194.000	D	4BU52 33-2EA23-2CA0		58.000	194.000
50	D	4BU53 33-2EA23-2DA0		61.500	215.000	D	4BU53 33-2EA23-2CA0		61.500	215.000
56	D	4BU53 43-2EA23-2DA0		80.000	233.000	D	4BU53 43-2EA23-2CA0		80.000	233.000
63	D	4BU54 33-2EA23-2DA0		54.000	269.000	D	4BU54 33-2EA23-2CA0		54.000	269.000
71	D	4BU54 43-2EA23-2DA0		71.000	286.000	D	4BU54 43-2EA23-2CA0		71.000	286.000
<b>Rated input voltage <math>U_{1N}</math> 3 AC 480 V <math>\pm 5</math> %</b>										
18	C	4BU43 33-5EA23-2DA0		26.500	105.000	C	4BU43 33-5EA23-2CA0		26.500	105.000
20	C	4BU43 43-5EA23-2DA0		35.000	113.000	C	4BU43 43-5EA23-2CA0		35.000	113.000
22.5	C	4BU43 53-5EA23-2DA0		46.500	125.000	C	4BU43 53-5EA23-2CA0		46.500	125.000
25	D	4BU45 33-5EA23-2DA0		33.500	139.000	D	4BU45 33-5EA23-2CA0		33.500	139.000
28	D	4BU45 43-5EA23-2DA0		44.500	150.000	D	4BU45 43-5EA23-2CA0		44.500	150.000
31.5	D	4BU47 33-5EA23-2DA0		39.000	173.000	D	4BU47 33-5EA23-2CA0		39.000	173.000
35.5	D	4BU47 43-5EA23-2DA0		52.000	186.000	D	4BU47 43-5EA23-2CA0		52.000	186.000
40	D	4BU47 53-5EA23-2DA0		70.000	206.000	D	4BU47 53-5EA23-2CA0		70.000	206.000
45	D	4BU52 33-5EA23-2DA0		63.000	199.000	D	4BU52 33-5EA23-2CA0		63.000	199.000
50	D	4BU53 33-5EA23-2DA0		66.500	220.000	D	4BU53 33-5EA23-2CA0		66.500	220.000
56	D	4BU53 43-5EA23-2DA0		86.500	240.000	D	4BU53 43-5EA23-2CA0		86.500	240.000
63	D	4BU54 33-5EA23-2DA0		58.500	274.000	D	4BU54 33-5EA23-2CA0		58.500	274.000
71	D	4BU54 43-5EA23-2DA0		77.000	292.000	D	4BU54 43-5EA23-2CA0		77.000	292.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and in our Mall.

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4BU Power Transformers

### 4BU transformers with selectable voltages

#### Overview

- 4BU power transformers and 4BU power transformers with **cULus** approval configured as matching, auto-<sup>1)</sup> or converter transformers with selectable input and output voltages from 100 V to 1000 V (line-to-line voltage  $U_L$ )  $\Upsilon$  or  $\Delta$  in the performance range from 18 kVA to 400 kVA and additional options
- DIN VDE 0532-6
- **cULus**<sup>2)</sup> (see Selection and Ordering Data)
- $t_a = 40$  °C/H and optional  $t_a = 55$  °C/H
- Standard vector group: Dyn5, for autotransformer: Ya0

<sup>1)</sup> For autotransformers the type rating is always quoted.

<sup>2)</sup> **cULus** approvals for voltages  $\leq 600$  V (excluding tappings) and degree of protection IP00.



4BU

#### Selection and ordering data

##### 4BU power transformers

PU (UNIT, SET, M) = 1  
 PS = 1 unit (You can order this quantity or a multiple thereof.)  
 PG = 104

Rated power <sup>1)</sup> $P_n$ with degree of protection		DT <sup>3)</sup>	Order No. stem	Basic price per PU	Additional price for standard options						Cu weight <sup>5)</sup> per PU approx.	Transformer weight <sup>5)</sup> per PU approx.	Total weight <sup>5)</sup> incl. enclosure per PU approx.
IP00, IP20 <sup>2)</sup>	IP23				Two tappings in the range $\pm 5\%$ of the rated input or output voltage for constant power	One tapping on the input or output side for falling power, neutral point connected to terminal <sup>4)</sup>	One additional separate winding on the input or output side	Shield winding (connection routed to terminal). Not possible for autotransformers	Installation in protective enclosures IP20, IP23	Rated ambient temperature $t_a = 55$ °C/H	kg	kg	kg
kVA	kVA												
18	16	B	<b>4BU43 32</b>		X	X	X	X	X	X	21.000	101.000	145.000
20	18	B	<b>4BU43 42</b>		X	X	X	X	X	X	27.000	105.000	149.000
22.5	20	B	<b>4BU43 52</b>		X	X	X	X	X	X	36.000	115.000	159.000
25	22.5	C	<b>4BU45 32</b>		X	X	X	X	X	X	26.000	131.000	175.000
28	25	C	<b>4BU45 42</b>		X	X	X	X	X	X	34.000	139.000	183.000
31.5	28	C	<b>4BU47 32</b>		X	X	X	X	X	X	30.500	166.000	210.000
35.5	32	C	<b>4BU47 42</b>		X	X	X	X	X	X	40.000	174.000	218.000
40	36	C	<b>4BU47 52</b>		X	X	X	X	X	X	52.500	188.000	232.000
45	40.5	D	<b>4BU52 32</b>		X	X	X	X	X	X	49.000	185.000	236.000
50	45	D	<b>4BU53 32</b>		X	X	X	X	X	X	52.000	205.000	256.000
56	50	D	<b>4BU53 42</b>		X	X	X	X	X	X	67.000	219.000	270.000
63	56.5	D	<b>4BU54 32</b>		X	X	X	X	X	X	46.500	262.000	323.000
71	63.5	D	<b>4BU54 42</b>		X	X	X	X	X	X	60.500	276.000	337.000
80	72	D	<b>4BU55 32</b>		X	X	X	X	X	X	65.000	306.000	367.000
91	81.5	D	<b>4BU56 32</b>		X	X	X	X	X	X	68.000	343.000	404.000
100	90	D	<b>4BU56 42</b>		X	X	X	X	X	X	84.500	359.000	420.000
112	100.5	D	<b>4BU58 32</b>		X	X	X	X	X	X	60.500	425.000	530.000
125	112.5	D	<b>4BU58 42</b>		X	X	X	X	X	X	76.500	440.000	545.000
140	126	D	<b>4BU58 52</b>		X	X	X	X	X	X	97.500	462.000	567.000
160	144	D	<b>4BU59 32</b>		X	X	X	X	X	X	104.000	516.000	621.000
180	162	D	<b>4BU60 32</b>		X	X	X	X	X	X	106.000	579.000	684.000
200	180	D	<b>4BU62 32</b>		X	X	X	X	X	X	112.000	678.000	813.000
225	202.5	D	<b>4BU62 42</b>		X	X	X	X	X	X	146.000	711.000	846.000
250	225	D	<b>4BU62 52</b>		X	X	X	X	X	X	185.000	751.000	886.000
280	252	D	<b>4BU63 32</b>		X	X	X	X	X	X	187.000	834.000	969.000
315	283.5	D	<b>4BU63 42</b>		X	X	X	X	X	X	244.000	891.000	1026.000
355	319.5	D	<b>4BU64 32</b>		X	X	X	X	X	X	251.000	997.000	1132.000
400	360	D	<b>4BU65 32</b>		X	X	X	X	X	X	280.000	1128.000	1263.000

For more options see page 10/85.

Before ordering, please ask for the complete Order No. (see page 10/4 for the inquiry/order address).

X = Additional price

<sup>1)</sup> For autotransformers the type rating is always quoted.

<sup>2)</sup> No power reduction for ambient temperatures  $\leq 40$  °C.

<sup>3)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>4)</sup> With three-phase transformers, an additional price is charged for neutral point connected to terminal  $1/3$ .

<sup>5)</sup> All weights are based on  $t_a = 40$  °C/H, at  $t_a = 55$  °C/H other weights apply. The actual copper weight is listed in the price notice or the quotation; the transformer weight and total weight is reduced/increased by the difference.

# Three-Phase Transformers

## 4BU Power Transformers

### 4BU transformers with selectable voltages

4BU power transformers with  approval


<sup>1)</sup>

PU (UNIT, SET, M) = 1  
 PS = 1 unit (You can order this quantity or a multiple thereof.)  
 PG = 104

Rated power <sup>2)</sup> P <sub>n</sub> with degree of protection		DT <sup>4)</sup>	Order No. stem	Basic price per PU	Additional price for standard options						Cu weight <sup>6)</sup> per PU approx.	Transformer weight <sup>6)</sup> per PU approx.	Total weight <sup>6)</sup> incl. enclosure per PU approx.
IP00, IP20 <sup>3)</sup>	IP23				Two tappings in the range ±5 % of the rated input or output voltage for constant power	One tapping on the input or output side for failing power; neutral point connected to terminal <sup>5)</sup>	One additional separate winding on the input or output side	Shield winding (connection routed to terminal). Not possible for autotransformers.	Installation in protective enclosures IP20, IP23	Rated ambient temperature t <sub>a</sub> = 55 °C/H			
kVA	kVA									kg	kg	kg	
18	16	B	<b>4BU43 33</b>		X	X	X	X	X	21.500	102.000	146.000	
20	18	B	<b>4BU43 43</b>		X	X	X	X	X	27.500	109.000	153.000	
22.5	20	B	<b>4BU43 53</b>		X	X	X	X	X	37.000	118.000	162.000	
25	22.5	C	<b>4BU45 33</b>		X	X	X	X	X	27.000	135.000	179.000	
28	25	C	<b>4BU45 43</b>		X	X	X	X	X	35.000	143.000	187.000	
31.5	28	C	<b>4BU47 33</b>		X	X	X	X	X	31.500	169.000	213.000	
35.5	32	C	<b>4BU47 43</b>		X	X	X	X	X	41.000	179.000	223.000	
40	36	C	<b>4BU47 53</b>		X	X	X	X	X	55.000	194.000	238.000	
45	40.5	D	<b>4BU52 33</b>		X	X	X	X	X	50.500	191.000	242.000	
50	45	D	<b>4BU53 33</b>		X	X	X	X	X	53.500	212.000	263.000	
56	50	D	<b>4BU53 43</b>		X	X	X	X	X	69.500	229.000	280.000	
63	56.5	D	<b>4BU54 33</b>		X	X	X	X	X	48.000	267.000	328.000	
71	63.5	D	<b>4BU54 43</b>		X	X	X	X	X	62.000	282.000	343.000	
80	72	D	<b>4BU55 33</b>		X	X	X	X	X	66.500	314.000	375.000	
91	81.5	D	<b>4BU56 33</b>		X	X	X	X	X	70.500	353.000	414.000	
100	90	D	<b>4BU56 43</b>		X	X	X	X	X	87.000	370.000	431.000	
112	100.5	D	<b>4BU58 33</b>		X	X	X	X	X	61.500	430.000	535.000	
125	112.5	D	<b>4BU58 43</b>		X	X	X	X	X	77.500	449.000	554.000	
140	126	D	<b>4BU58 53</b>		X	X	X	X	X	99.000	470.000	575.000	
160	144	D	<b>4BU59 33</b>		X	X	X	X	X	106.000	527.000	632.000	
180	162	D	<b>4BU60 33</b>		X	X	X	X	X	108.000	590.000	695.000	
200	180	D	<b>4BU62 33</b>		X	X	X	X	X	117.000	684.000	819.000	
225	202.5	D	<b>4BU62 43</b>		X	X	X	X	X	152.000	732.000	867.000	
250	225	D	<b>4BU62 53</b>		X	X	X	X	X	192.000	775.000	910.000	
280	252	D	<b>4BU63 33</b>		X	X	X	X	X	209.000	872.000	1007.000	
315	283.5	D	<b>4BU63 43</b>		X	X	X	X	X	253.000	920.000	1055.000	
355	319.5	D	<b>4BU64 33</b>		X	X	X	X	X	261.000	1031.000	1166.000	
400	360	D	<b>4BU65 33</b>		X	X	X	X	X	291.000	1154.000	1289.000	

Before ordering, please ask for the complete Order No. (see page 10/4 for the inquiry/order address).

X = Additional price

<sup>1)</sup>  approvals for voltages ≤ 600 V (excluding tappings) and degree of protection IP00.

<sup>2)</sup> For autotransformers the type rating is always quoted.

<sup>3)</sup> No power reduction for ambient temperatures ≤ 40 °C.

<sup>4)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

<sup>5)</sup> With three-phase transformers, an additional price is charged for neutral point connected to terminal 1<sub>3</sub>.

<sup>6)</sup> All weights are based on t<sub>a</sub> = 40 °C/H, at t<sub>a</sub> = 55 °C/H other weights apply. The actual copper weight is listed in the price notice or the quotation; the transformer weight and total weight is reduced/increased by the difference.

### Options

• Thermistor transformer protection for warning and/or disconnection:  
 The 4BU power transformers can be supplied with thermistor transformer protection for warning and/or disconnection, see [Technical Information LV 1 T "General Data" --> "Design"](#).

PG = 104

For transformer Type	Additional price for		
	Warning	Disconnection	Warning and disconnection
<b>4BU</b>	X	X	X

X = Additional price

• Rating plates made of metal:  
 One separately packed rating plate made of metal can be supplied per 4BU transformer.  
 Additional price on request.

• Deviations from the standard vector groups Dyn5 or Ya0 for autotransformers must be specified when ordering.

Further versions with higher outputs up to 1250 kVA are available on request.

# Three-Phase Transformers

## 4AP, 4AU Autotransformers

For matching purposes according to EN 61558-2-13

### Overview

- Shared input and output windings without electrical isolation
- Enable the voltage matching of electrical loads
- Designed for uninterrupted duty (100 % ON-time)
- Vector group YNa0
- 4AP:  $t_a = 50\text{ °C}$  (T50/B), 4AU:  $t_a = 55\text{ °C}$  (T55/H)
- **Siemens**



4AP (left) and 4AU (right)

### Selection and ordering data

Rated input voltage  $U_{1N}$  3 AC 480-460-440-415-380 V, 50 ... 60 Hz,  
rated output voltage  $U_{2N}$  3 AC 400 V

**Siemens**

Rated power $P_n$	Power loss approx.	DT <sup>1)</sup>	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
kVA	W							kg	kg

Rated power figures are nominal and refer to the input voltage of 480 V. Higher power values for the other input voltages can be found in the table in the Technical Information LV 1 T.

Degree of protection IP00									
5	86	▶	<b>4AP21 42-8HA20-2XA0</b>		1	1 unit	104	3.300	11.000
9.1	130	B	<b>4AP25 52-8HA20-2XA0</b>		1	1 unit	104	6.000	20.000
12.5	155	B	<b>4AP27 42-8HA20-2XA0</b>		1	1 unit	104	5.400	25.000
16	160	B	<b>4AP27 52-8HA20-2XA0</b>		1	1 unit	104	6.000	30.000
22.5	210	B	<b>4AP30 52-8HA20-2XA0</b>		1	1 unit	104	13.000	42.000
31.5	290	B	<b>4AU30 32-8HA20-2XA0</b>		1	1 unit	104	11.600	42.000
50	480	B	<b>4AU36 32-8HA20-2XA0</b>		1	1 unit	104	14.000	57.000
Degree of protection IP23									
4.5	70	C	<b>4AP21 42-8HA20-2XC0</b>		1	1 unit	104	3.300	18.700
8.2	100	B	<b>4AP25 52-8HA20-2XC0</b>		1	1 unit	104	6.000	27.700
11.3	125	B	<b>4AP27 42-8HA20-2XC0</b>		1	1 unit	104	5.400	32.700
14.4	120	B	<b>4AP27 52-8HA20-2XC0</b>		1	1 unit	104	10.400	37.700
18	156	C	<b>4AP30 52-8HA20-2XC0</b>		1	1 unit	104	13.000	49.700
25.2	205	B	<b>4AU30 32-8HA20-2XC0</b>		1	1 unit	104	11.600	49.700
40	335	B	<b>4AU36 32-8HA20-2XC0</b>		1	1 unit	104	14.000	70.900
Degree of protection IP54									
4	60	B	<b>4AP21 42-8HA20-2XD0</b>		1	1 unit	104	3.300	18.700
7.3	90	B	<b>4AP25 52-8HA20-2XD0</b>		1	1 unit	104	6.000	27.700
10	110	C	<b>4AP27 42-8HA20-2XD0</b>		1	1 unit	104	5.400	32.700
12.8	105	C	<b>4AP27 52-8HA20-2XD0</b>		1	1 unit	104	10.400	37.700
15.8	135	C	<b>4AP30 52-8HA20-2XD0</b>		1	1 unit	104	13.000	49.700
22.1	170	B	<b>4AU30 32-8HA20-2XD0</b>		1	1 unit	104	11.600	49.700
35	274	B	<b>4AU36 32-8HA20-2XD0</b>		1	1 unit	104	14.000	85.000

<sup>1)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4AP, 4AU Autotransformers

For matching purposes according  
to EN 61558-2-13

Rated input voltage  $U_{1N}$  3 AC 480-460-440-415-400 (380)<sup>1)</sup> V, 50 ... 60 Hz,  
rated output voltage  $U_{2N}$  3 AC 230 (220)<sup>1)</sup> V



Rated power $P_n$	Power loss approx.	DT <sup>2)</sup>	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
kVA	W							kg	kg
<b>Degree of protection IP00</b>									
5	140	B	<b>4AP27 42-8JT10-2XA0</b>		1	1 unit	104	5.000	25.000
9.1	210	B	<b>4AP30 52-8JT10-2XA0</b>		1	1 unit	104	14.000	41.000
12.5	275	B	<b>4AU30 32-8JT10-2XA0</b>		1	1 unit	104	12.300	42.000
16	380	B	<b>4AU36 12-8JT10-2XA0</b>		1	1 unit	104	11.000	53.000
22.5	390	B	<b>4AU36 42-8JT10-2XA0</b>		1	1 unit	104	23.000	65.000
31.5	480	B	<b>4AU39 32-8JT10-2XA0</b>		1	1 unit	104	34.000	85.000
<b>Degree of protection IP23</b>									
4.5	125	B	<b>4AP27 42-8JT10-2XC0</b>		1	1 unit	104	5.000	32.700
7.3	140	B	<b>4AP30 52-8JT10-2XC0</b>		1	1 unit	104	14.000	48.700
10	190	B	<b>4AU30 32-8JT10-2XC0</b>		1	1 unit	104	12.300	49.700
12.8	265	B	<b>4AU36 12-8JT10-2XC0</b>		1	1 unit	104	11.000	66.900
18	270	B	<b>4AU36 42-8JT10-2XC0</b>		1	1 unit	104	23.000	78.900
25.2	330	B	<b>4AU39 32-8JT10-2XC0</b>		1	1 unit	104	34.000	98.900
<b>Degree of protection IP54</b>									
4	110	B	<b>4AP27 42-8JT10-2XD0</b>		1	1 unit	104	5.000	32.700
6.4	120	B	<b>4AP30 52-8JT10-2XD0</b>		1	1 unit	104	14.000	48.700
8.8	160	C	<b>4AU30 32-8JT10-2XD0</b>		1	1 unit	104	12.300	49.700
11.2	220	B	<b>4AU36 12-8JT10-2XD0</b>		1	1 unit	104	11.000	66.900
15.8	225	B	<b>4AU36 42-8JT10-2XD0</b>		1	1 unit	104	23.000	78.900
22.1	280	B	<b>4AU39 32-8JT10-2XD0</b>		1	1 unit	104	34.000	98.900

<sup>1)</sup> Operating with 3 AC 380 V at the input terminals results in an output voltage of 3 AC 220 V.

<sup>2)</sup> The delivery time class depends on the quantity, see page 10/4 "Options".

# Three-Phase Transformers

## 4FL Voltage Regulators

### 4FL voltage regulators, transformer type

#### Overview



4FL

- According to DIN VDE 0552
- Degree of protection IP21
- $t_a = 40\text{ °C/E}$

#### Application

The 4FL transformer-type voltage regulators are used as voltage stabilizers on supply systems with varying voltages. On the output of the voltage regulator, a constant voltage is available for the load which creates a constant machine performance which is immune to variations in the supply system.

#### Selection and ordering data

**Rated voltage: PRI = SEC: 400 V, 50 Hz to 60 Hz**

PU (UNIT, SET, M) = 1  
 PS = 1 unit (You can order this quantity or a multiple thereof.)  
 PG = 114

Settling time	Rated power $P_n$	DT	For symmetrical mains voltage		Cu weight per PU approx.	Total weight per PU approx.	DT	For asymmetrical mains voltage		Cu weight per PU approx.	Total weight per PU approx.
			Order No.	Price per PU				Order No.	Price per PU		
s	kVA				kg	kg			kg	kg	
<b>Control range for input voltage: +10 % to -10 %</b>											
1.5	6.8	X	<b>4FL23 01-3CN</b>		3.900	80.000	X	<b>4FL23 02-3CN</b>		3.900	80.000
1.5	11	D	<b>4FL28 01-3CN</b>		4.800	80.000	X	<b>4FL28 02-3CN</b>		4.800	80.000
1.5	17	X	<b>4FL33 01-3CN</b>		8.400	90.000	X	<b>4FL33 02-3CN</b>		8.400	90.000
1.5	25	X	<b>4FL38 01-3CN</b>		10.500	110.000	X	<b>4FL38 02-3CN</b>		10.500	110.000
1.5	34	X	<b>4FL43 01-3CN</b>		15.300	150.000	X	<b>4FL43 02-3CN</b>		15.300	150.000
1.5	51	D	<b>4FL46 01-3CN</b>		25.500	210.000	X	<b>4FL46 02-3CN</b>		25.500	210.000
1.5	68	X	<b>4FL49 01-3CN</b>		32.400	240.000	X	<b>4FL49 02-3CN</b>		32.400	240.000
2.5	95	X	<b>4FL51 01-3CN</b>		47.200	320.000	X	<b>4FL51 02-3CN</b>		47.200	320.000
2.5	190	X	<b>4FL53 01-3CN</b>		80.800	400.000	X	<b>4FL53 02-3CN</b>		80.800	400.000
<b>Control range for input voltage: +15 % to -15 %</b>											
1.5	4.2	X	<b>4FL18 11-3CN</b>		3.900	80.000	X	<b>4FL18 12-3CN</b>		3.900	80.000
1.5	7	X	<b>4FL24 11-3CN</b>		4.800	80.000	X	<b>4FL24 12-3CN</b>		4.800	80.000
1.5	11	X	<b>4FL28 11-3CN</b>		8.400	90.000	D	<b>4FL28 12-3CN</b>		8.400	90.000
1.5	16	X	<b>4FL32 11-3CN</b>		10.500	110.000	X	<b>4FL32 12-3CN</b>		10.500	110.000
1.5	21	X	<b>4FL35 11-3CN</b>		15.300	150.000	X	<b>4FL35 12-3CN</b>		15.300	150.000
1.5	32	X	<b>4FL42 11-3CN</b>		25.500	210.000	X	<b>4FL42 12-3CN</b>		25.500	210.000
1.5	42	X	<b>4FL45 11-3CN</b>		32.400	240.000	X	<b>4FL45 12-3CN</b>		32.400	240.000
2.5	60	X	<b>4FL47 11-3CN</b>		47.200	320.000	D	<b>4FL47 12-3CN</b>		47.200	320.000
2.5	110	X	<b>4FL52 11-3CN</b>		80.800	400.000	D	<b>4FL52 12-3CN</b>		80.800	400.000
<b>Control range for input voltage: +20 % to -20 %</b>											
1.5	3	X	<b>4FL15 21-3CN</b>		3.900	80.000	X	<b>4FL15 22-3CN</b>		3.900	80.000
1.5	4.8	X	<b>4FL19 21-3CN</b>		4.800	80.000	X	<b>4FL19 22-3CN</b>		4.800	80.000
1.5	7.5	X	<b>4FL25 21-3CN</b>		8.400	90.000	X	<b>4FL25 22-3CN</b>		8.400	90.000
1.5	11	X	<b>4FL28 21-3CN</b>		10.500	110.000	X	<b>4FL28 22-3CN</b>		10.500	110.000
1.5	15	X	<b>4FL31 21-3CN</b>		15.300	150.000	X	<b>4FL31 22-3CN</b>		15.300	150.000
1.5	22.5	X	<b>4FL37 21-3CN</b>		25.500	210.000	D	<b>4FL37 22-3CN</b>		25.500	210.000
1.5	30	X	<b>4FL40 21-3CN</b>		32.400	240.000	X	<b>4FL40 22-3CN</b>		32.400	240.000
2.5	42	X	<b>4FL45 21-3CN</b>		50.000	320.000	X	<b>4FL45 22-3CN</b>		51.500	320.000
2.5	84	X	<b>4FL50 21-3CN</b>		82.600	400.000	X	<b>4FL50 22-3CN</b>		84.600	400.000

Further versions with higher outputs up to 2000 kVA, voltages up to 1 kVA and control ranges up to +/- 30 % are available on request.