

Digital module, 4 inputs and 2 relay outputs, input voltage 110-240 V
AC/DC relay outputs monostable, max. 2 digital modules, for
SIMOCODE pro V basic unit



Product brand name	SIRIUS
Product designation	digital modules

General technical data

Product component	
<ul style="list-style-type: none"> • input for thermistor connection • Digital input • input for analog temperature sensors • input for ground fault detection • Relay output 	<p>No</p> <p>Yes</p> <p>No</p> <p>No</p> <p>Yes</p>
Insulation voltage	
<ul style="list-style-type: none"> • with degree of pollution 3 rated value 	300 V
Surge voltage resistance rated value	4 000 V
Protection class IP	IP20
Shock resistance	
<ul style="list-style-type: none"> • acc. to IEC 60068-2-27 	15g / 11 ms
Vibration resistance	
<ul style="list-style-type: none"> • acc. to IEC 60068-2-6 	1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g
Switching capacity current of the NO contacts of the relay outputs at AC-15	

<ul style="list-style-type: none"> • at 24 V • at 120 V • at 230 V 	6 A 6 A 3 A
Switching capacity current of the NO contacts of the relay outputs at DC-13 <ul style="list-style-type: none"> • at 24 V • at 60 V • at 125 V 	2 A 0.55 A 0.25 A
Mechanical service life (switching cycles) <ul style="list-style-type: none"> • typical 	10 000 000
Electrical endurance (switching cycles) <ul style="list-style-type: none"> • typical 	100 000
Reference code acc. to DIN EN 81346-2	K
Reference code acc. to DIN EN 61346-2	K
Continuous current of the NO contacts of the relay outputs <ul style="list-style-type: none"> • at 50 °C • at 60 °C 	6 A 5 A
Explosion device group and category according to ATEX directive 2014/34/EU	II (2) G, II (2) D, I (M2)

Electromagnetic compatibility

EMC emitted interference <ul style="list-style-type: none"> • acc. to IEC 60947-1 	class A
EMI immunity acc. to IEC 60947-1	corresponds to degree of severity 3
Conducted interference <ul style="list-style-type: none"> • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 	1 kV 2 kV 1 kV 10 V
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Conducted HF-interference emissions acc. to CISPR11	corresponds to degree of severity A
Field-bound HF-interference emission acc. to CISPR11	corresponds to degree of severity A

Inputs/ Outputs

Product function <ul style="list-style-type: none"> • Parameterizable inputs • Parameterizable outputs 	Yes Yes
Number of inputs	4

Number of digital inputs	4
• with a common reference potential	4
Digital input version	
• Type 1 acc. to IEC 61131	No
• Type 2 acc. to IEC 61131	No
Number of analog inputs	0
Input voltage at digital input at DC rated value	110 V
Number of outputs	2
Number of semiconductor outputs	0
Number of outputs as contact-affected switching element	2
Number of analog outputs	0
Switching behavior	monostable
Property of contacts of the relay outputs	Floating NO contacts (NC reaction parameterizable via internal signal conditioning), connected to common ground, can be freely assigned to the control functions (e.g. line, star (wye), delta contactor or signaling of the operating state)
Wire length for digital signals maximum	200 m

Installation/ mounting/ dimensions

Mounting position	any
Mounting type	screw and snap-on mounting
Height	92 mm
Width	22.5 mm
Depth	124 mm
Required spacing	
• top	40 mm
• bottom	40 mm
• left	0 mm
• right	0 mm

Connections/Terminals

Product function	
• removable terminal for auxiliary and control circuit	Yes
Type of electrical connection	
• for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections	
• solid	1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²)
• finely stranded with core end processing	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²)
• at AWG conductors solid	1x (20 ... 14), 2x (20 ... 16)
• at AWG conductors stranded	1x (20 ... 12), 2x (20 ... 14)
Tightening torque	
• with screw-type terminals	0.8 ... 1.2 N·m
Tightening torque [lbf·in]	

- with screw-type terminals

7 ... 10.3 lbf·in

Ambient conditions

Installation altitude at height above sea level	
<ul style="list-style-type: none"> • 1 maximum 	2 000 m
<ul style="list-style-type: none"> • 2 maximum 	3 000 m; max. +50 °C (no protective separation)
<ul style="list-style-type: none"> • 3 maximum 	4 000 m; No protective separation at 40 °C
Environmental category	
<ul style="list-style-type: none"> • during operation acc. to IEC 60721 	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul style="list-style-type: none"> • during storage acc. to IEC 60721 	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul style="list-style-type: none"> • during transport acc. to IEC 60721 	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Relative humidity	
<ul style="list-style-type: none"> • during operation 	5 ... 95 %
Contact rating of auxiliary contacts according to UL	B300 / R300

Short-circuit protection

Design of short-circuit protection	
<ul style="list-style-type: none"> • per output 	Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit-breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I _K < 500 A)

Safety related data

Protection against electrical shock	finger-safe
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Control circuit/ Control

Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	
<ul style="list-style-type: none"> • at 50 Hz rated value 	110 ... 240 V
<ul style="list-style-type: none"> • at 60 Hz rated value 	110 ... 240 V
Control supply voltage frequency 1	50 ... 60 Hz
Control supply voltage at DC	
<ul style="list-style-type: none"> • rated value 	110 ... 240 V
Operating range factor control supply voltage rated value at DC	
<ul style="list-style-type: none"> • initial value 	0.85
<ul style="list-style-type: none"> • Full-scale value 	1.1
Operating range factor control supply voltage rated value at AC at 50 Hz	
<ul style="list-style-type: none"> • initial value 	0.85
<ul style="list-style-type: none"> • Full-scale value 	1.1
Operating range factor control supply voltage rated value at AC at 60 Hz	
<ul style="list-style-type: none"> • initial value 	0.85

Certificates/approvals

General Product Approval	EMC	For use in hazardous locations
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CCC



CSA



UL



RCM



ATEX

For use in hazardous locations	Declaration of Conformity	Test Certificates	Marine / Shipping
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[Explosion Protection Certificate](#)



EG-Konf.

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



ABS



RMRS

Marine / Shipping	other
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DNVGL.COM/AF

[Confirmation](#)

[PROFINET-Certification](#)



Profibus

[PROFIsafe-Certification](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7300-1AU00-0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7300-1AU00-0>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

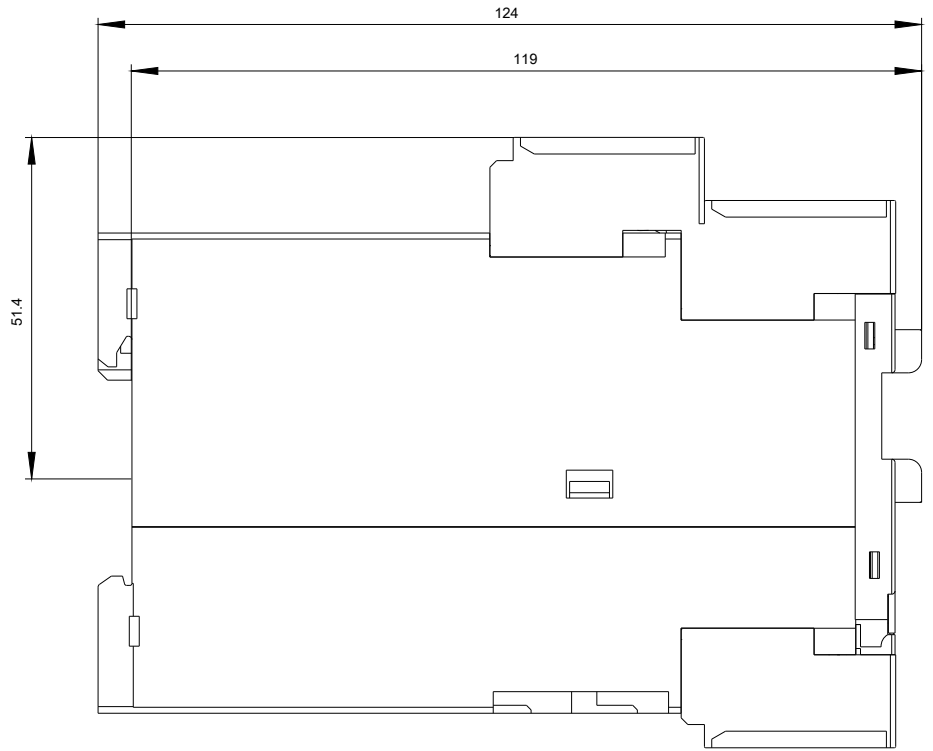
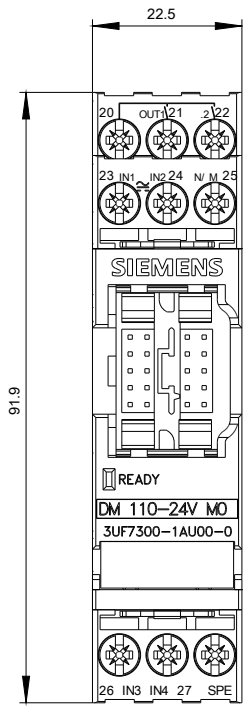
<https://support.industry.siemens.com/cs/ww/en/ps/3UF7300-1AU00-0>

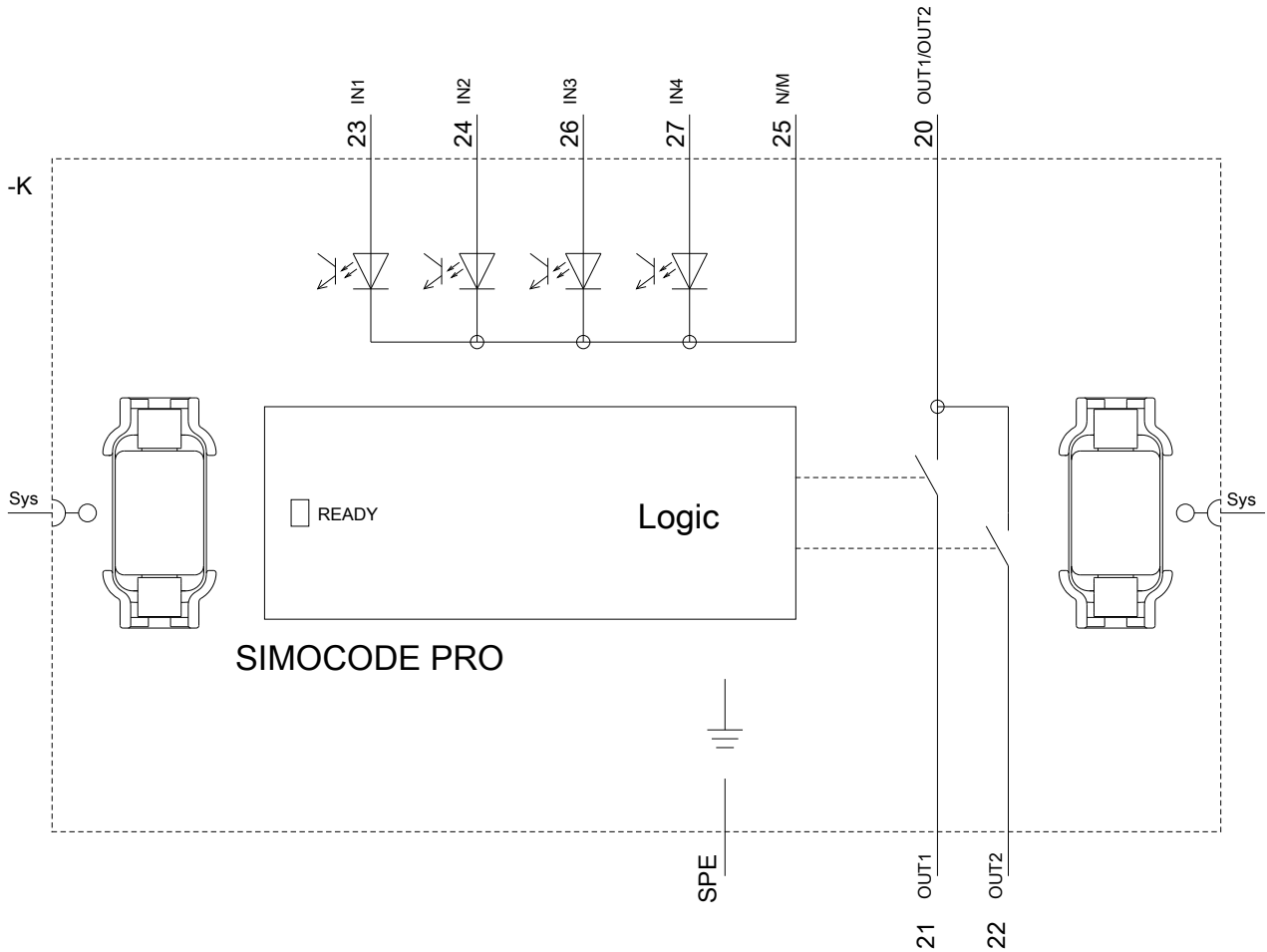
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7300-1AU00-0&lang=en

Test report No. A0258, protective separation

<https://support.industry.siemens.com/cs/ww/en/view/109748152>





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