

MLFB-Ordering data

6SL3210-1KE15-8UP2



Figure similar

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. : Consignment no. : Project :

Rated da	ta
Input	
Number of phases	3 AC
Line voltage	380 480 V +10 % -20 %
Line frequency	47 63 Hz
Rated current (LO)	7.40 A
Rated current (HO)	6.00 A
Output	
Number of phases	3 AC
Rated voltage	400 V
Rated power IEC 400V (LO)	2.20 kW
Rated power NEC 480V (LO) 3.00 hp	
Rated power IEC 400V (HO)	1.50 kW
Rated power NEC 480V (HO) 2.00 hp	
Rated current (IN)	5.80 A
Rated current (LO)	5.60 A
Rated current (HO)	4.10 A
Max. output current	8.20 A
Pulse frequency	4 kHz
Output frequency for vector control	0 240 Hz
Output frequency for V/f control	0 550 Hz

Overload capability

Low Overload (LO)

 $150\ \%$ base load current IL for 3 s, followed by $110\ \%$ base load current IL for 57 s in a $300\ s$ cycle time

High Overload (HO)

 $200\,\%$ base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time

General tech. specifications			
Power factor λ	0.70 0.85		
Offset factor cos φ	0.95		
Efficiency η	0.97		
Sound pressure level (1m)	49 dB		
Power loss	0.07 kW		
Filter class (integrated)	Unfiltered		

Ambient conditions				
Cooling	Air cooling using an integrated fan			
Cooling air requirement	0.005 m³/s (0.177 ft³/s)			
Installation altitude	1000 m (3280.84 ft)			
Ambient temperature				
Operation	-10 40 °C (14 104 °F)			
Transport	-40 70 °C (-40 158 °F)			
Storage	-40 70 °C (-40 158 °F)			
Relative humidity				

Closed-loop control techniques				
V/f linear / square-law / parameterizable	Yes			
V/f with flux current control (FCC)	Yes			
V/f ECO linear / square-law	Yes			
Sensorless vector control	Yes			
Vector control, with sensor	No			
Encoderless torque control	No			
Torque control, with encoder	No			



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Mechanica	data	Com	municatio
gree of protection	IP20 / UL open type	Communication	PROFIBUS DP
e	FSAA	Со	nnections
t weight	1.40 kg (3.09 lb)	Signal cable	
dth	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 r
ght	173 mm (6.81 in)	Line side	
oth	155 mm (6.10 in)	Version	Plug-in screw
Inputs / ou	tputs	Conductor cross-section	1.00 2.50 r
ndard digital inputs		Motor end	
nber	6	Version	Plug-in screw
tching level: 0→1	11 V	Conductor cross-section	1.00 2.50 r
tching level: 1→0	5 V	DC link (for braking resistor))
к. inrush current	15 mA	-	
safe digital inputs		Version	Plug-in screw
mber	1	Conductor cross-section	1.00 2.50 r
tal outputs		Line length, max.	15 m (49.21
mber as relay changeover contact	1	PE connection Max. motor cable length	On housing w
		Max. motor cable length	
tput (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04
nber as transistor	1	Unshielded	100 m (328.0
tput (resistive load)	DC 30 V, 0.5 A	S	tandards
og / digital inputs		Compliance with standards	UL, cUL, CE, C
nber	1 (Differential input)		EMC Directive
olution	10 bit	CE marking	Directive 200
ching threshold as digital in	put		
1	4 V		
→ 0	1.6 V		
log outputs			
mber	1 (Non-isolated output)		
IDCI	(Non Bolatea output)		

PTC/ KTY interface

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^{\circ}\text{C}$



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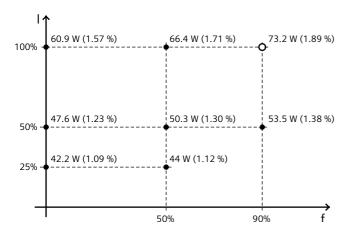
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% /	-69.92 %



The percentage values show the losses in relation to the rated apparent power of the converter.

The diagram shows the losses for the points (as per standard EN 50598) of the relative torque generating current (I) over the relative motor stator frequency(f). The values are valid for the basic version of the converter without options/components.

*converted values