

MLFB-Ordering data

6SL3210-1KE18-8AB1



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
nput		Power factor λ	0.70.	0.85
Number of phases	3 AC	Offset factor cos φ	0.95	
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97	
Line frequency	47 63 Hz	Sound pressure level (1m)	52 dB	
Rated current (LO)	11.40 A	Power loss	0.15	W
Rated current (HO)	10.60 A	Ambient conditions		
Dutput		Ambier	nt conditions	
Number of phases	3 AC	Cooling	Air cooling u	sing an integrated fan
Rated voltage	400 V	Cooling air requirement	0 005 m3/c (0 177 ft3/c)
Rated power IEC 400V (LO)	4.00 kW	Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Rated power NEC 480V (LO)	5.00 hp	Installation altitude	1000 m (3280.84 ft)	
Rated power IEC 400V (HO)	3.00 kW	Ambient temperature		
Rated power NEC 480V (HO)	4.00 hp	Operation	-10 40 °C	(14 104 °F)
Rated current (IN)	9.00 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (LO)	8.80 A	Storage	-40 70 °C (-40 158 °F)	
Rated current (HO)	7.30 A	Relative humidity		
Max. output current	14.60 A	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
Pulse frequency	4.000 kHz			
Output frequency for vector control	0 240 Hz	Closed-loop control techniques		
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameterizableYesV/f with flux current control (FCC)Yes		Yes
				Yes
		V/f ECO linear / square-law		Yes
)verload capability		Sensorless vector control		Yes

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

Communication

Communication

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

RS485

No

No

No



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Mechanical data		Со	Connections		
Degree of protection	IP20 / UL open type	Signal cable			
Size	FSA	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)		
Net weight	1.70 kg (3.75 lb)	Line side			
Width	73 mm (2.87 in)	Version	Plug-in screw terminals		
Height	196 mm (7.72 in)	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)		
Depth	203 mm (7.99 in)	Motor end			
Inputs / outputs		Version	Plug-in screw terminals		
Standard digital inputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)		
Number	6	DC link (for braking resistor))		
Switching level: 0→1	11 V	Version	Plug-in screw terminals		
Switching level: 1→0	5 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)		
Max. inrush current	15 mA	Line length, max.	15 m (49.21 ft)		
Fail-safe digital inputs		PE connection	On housing with M4 screw		
Number	1	Max. motor cable length			
Digital outputs		Shielded	150 m (492.13 ft)		
Number as relay changeover contact	1	Unshielded	150 m (492.13 ft)		
Output (resistive load)	DC 30 V, 0.5 A	Standards			
Number as transistor	1	Compliance with standards	UL, cUL, CE, C-Tick (RCM)		
Output (resistive load)	DC 30 V, 0.5 A				
Analog / digital inputs		CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC		
Number	1 (Differential input)				
Analog outputs					
Number	1 (Non-isolated output)				

PTC/ KTY interface

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



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Converter losses to EN 50598-2* Efficiency class IE2 Comparison with the reference converter (90% / -65.57 % 100%) -**O**-^{134.0 W (2.20 %)} 98.0 W (1.60 %) 111.0 W (1.83 %) 100% 72.0 W (1.18 %) 78.0 W (1.28 %) 86.0 W (1.42 %) 50% 62.0 W (1.02 %) 65 W (1.06 %) 25% f 50% 90%

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