

## **MLFB-Ordering data**

6SL3210-1KE23-2AP1



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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
Input		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)	66 dB	
Rated current (LO)	40.60 A	Power loss	0.43 kW	
Rated current (HO)	36.40 A	Ambiant conditions		
Output		Ambient conditions		
Number of phases	3 AC	Cooling	Air cooling	using an integrated fan
Rated voltage	400 V	Cooling oir requirement	0.018 m3/s	(0.626 ft3/c)
Rated power IEC 400V (LO)	15.00 kW	Cooling air requirement	0.018 m³/s (0.636 ft³/s) 1000 m (3280.84 ft)	
Rated power NEC 480V (LO)	20.00 hp	Installation altitude	1000 m (32	80.84 ft)
Rated power IEC 400V (HO)	11.00 kW	Ambient temperature		<i></i>
Rated power NEC 480V (HO)	15.00 hp	Operation	-10 40 °C (14 104 °F)	
Rated current (IN)	32.00 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (LO)	31.00 A	Storage	-40 70 °C (-40 158 °F)	
Rated current (HO)	25.00 A	Relative humidity		
Max. output current	50.00 A	95 % At 40 °C (104 °F), conden Max. operation and icing not permissible		
Pulse frequency	4.000 kHz			
Output frequency for vector control	0 240 Hz	Closed-loop control techniques		niques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramet	terizable	Yes
		V/f with flux current control (FC	C)	Yes
		V/f ECO linear / square-law		Yes
Overload capability		Sensorless vector control		Yes
Low Overload (LO)		Vector control, with sensor		No
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Encoderless torque control		No
High Overload (HO)		Torque control, with encoder		No
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

PROFIBUS DP



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Mechanical data		Connections		
Degree of protection	IP20 / UL open type	Signal cable		
Size	FSC	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Net weight	4.40 kg (9.70 lb)	Line side		
Width	140 mm (5.51 in)	Version	Plug-in screw terminals	
Height	295 mm (11.61 in)	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)	
Depth	203 mm (7.99 in)	Motor end		
Inputs / outputs		Version	Plug-in screw terminals	
Standard digital inputs		Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)	
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	6.00 16.00 mm² (AWG 10 AWG 6)	
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	J. J	
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)			
Resolution	10 bit			
Switching threshold as digital in	put			
0→1	4 V			
1→0	1.6 V			
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  $\pm 5~^\circ\mathrm{C}$ 

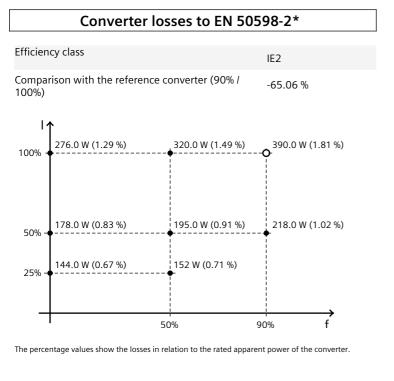


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Figure similar



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