

# **MLFB-Ordering data**

6SL3210-1KE12-3UF2



Figure similar

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

ltem 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)	49 dB	
Rated current (LO)	2.90 A	Power loss	0.04 kW	
Rated current (HO)	2.50 A	Ambient conditions		
Dutput				
Number of phases	3 AC	Cooling	Air cooling using an integrated fan	
Rated voltage	400 V	Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Rated power IEC 400V (LO)	0.75 kW	Installation altitude		
Rated power NEC 480V (LO)	1.00 hp		1000 m (3280.84 ft)	
Rated power IEC 400V (HO)	0.55 kW	Ambient temperature		
Rated power NEC 480V (HO)	0.75 hp	Operation	-10 40 °C (14 104 °F)	
Rated current (IN)	2.30 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (LO)	2.20 A	Storage	-40 70 °C (-40 158 °F)	
Rated current (HO)	1.70 A	Relative humidity		
Max. output current	3.40 A	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible $% \left( \frac{1}{2} \right) = 0$	
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 / paramet	<b>erizable</b> 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

PROFINET / EtherNet/IP



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Mechanical data		Figure simile Connections	
Degree of protection	IP20 / UL open type	Signal cable	
Size	FSAA	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
Net weight	1.40 kg (3.09 lb)	Line side	
Width	73 mm (2.87 in)	Version	Plug-in screw terminals
Height	173 mm (6.81 in)	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)
Depth	178 mm (7.01 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	50 m (164.04 ft)
Number as relay changeover contact	1	Unshielded	100 m (328.08 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-Voltag Directive 2006/95/EC
Number	1 (Differential input)		
Analog outputs			
Number	1 (Non-isolated output)		

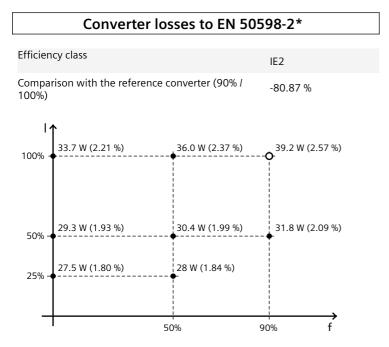
## PTC/ KTY interface

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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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



Figure similar