

MLFB-Ordering data

6SL3210-1KE23-8UP1



Figure similar

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

ltem no. :	
Consignment no. :	
Proiect :	

Rated data		General tech	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)	48.20 A	Power loss	0.50 kW		
Rated current (HO)	45.20 A	Ambient conditions			
Output		Ambien			
Number of phases	3 AC	Cooling	Air cooling using an integrated fa		
Rated voltage	400 V	Cooling air requirement	0.018 m³/s (0.636 ft³/s)		
Rated power IEC 400V (LO)	18.50 kW	Installation altitude	1000 m (3280.84 ft)		
Rated power NEC 480V (LO)	25.00 hp		1000 111 (3280.84 11)		
Rated power IEC 400V (HO)	15.00 kW	Ambient temperature			
Rated power NEC 480V (HO)	20.00 hp	Operation	-10 40 °C (14 104 °F)		
Rated current (IN)	38.00 A	Transport	-40 70 °C (-40 158 °F)		
Rated current (LO)	37.00 A	Storage	-40 70 °C (-40 158 °F)		
Rated current (HO)	31.00 A	Relative humidity			
Max. output current	62.00 A	Max. operation	95 % At 40 °C (104 °F), condensat 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 / paramete	erizable Yes		
		V/f with flux current control (FCC	C) Yes		
		V/f ECO linear / square-law	Yes		
Overload capability		Sensorless vector control	Yes		
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		Vector control, with sensor	No		
		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



MLFB-Ordering data

6SL3210-1KE23-8UP1



Mechanical data		Co	Figure similar 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 / out	tputs	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			
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 input					
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 $\pm 5~^\circ\mathrm{C}$

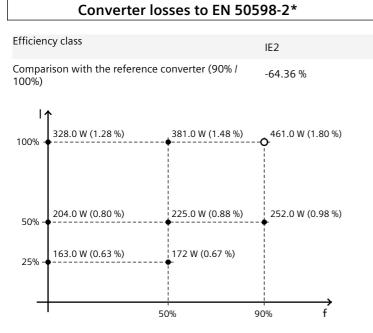


MLFB-Ordering data

6SL3210-1KE23-8UP1



Figure similar



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