

MLFB-Ordering data

6SL3210-1KE28-4UF1



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

ltem no. :	
Consignment no. :	
Project :	

Rated data		General tech. specifications		
Input		Power factor λ	0.9	0 0.95
Number of phases	3 AC	Offset factor cos φ	0.9	9
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	8
Line frequency	47 63 Hz	Sound pressure level (1m)	72	dB
Rated current (LO)	76.00 A	Power loss	1.0	01 kW
Rated current (HO)	69.00 A	Filter class (integrated)	Un	filtered
Output		Ambian	t conditio	~~
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan
Rated power IEC 400V (LO)	45.00 kW	Cooling air requirement	0.055 m3	/s (1.942 ft³/s)
Rated power NEC 480V (LO)	50.00 hp			
Rated power IEC 400V (HO)	37.00 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (HO)	40.00 hp	Ambient temperature	20 40	
Rated current (IN)	82.50 A	Operation	-20 40 °C (-4 104 °F)	
Rated current (LO)	82.50 A	Transport		°C (-40 158 °F)
Rated current (HO)	68.00 A	Storage	-40 70	°C (-40 158 °F)
Max. output current	136.00 A	Relative humidity		
Pulse frequency	4 kHz	Max. operation	95 % RH,	condensation not permitt
Output frequency for vector control	0 240 Hz			
		Closed-loop c	ontrol tec	hniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramet	erizable	Yes
		V/f with flux current control (FC	C)	Yes
Overload capability		V/f ECO linear / square-law		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		Sensorless vector control		Yes
		Vector control, with sensor		No
		Encoderless torque control		No
High Overload (HO) 200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a		Torque control, with encoder		No

300 s cycle time



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Machanical data		Com	Figure similar		
Mechanical data			Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP		
Size	FSD	Connections			
Net weight	18.80 kg (41.45 lb)	Signal cable			
Width	200 mm (7.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)		
Height	472 mm (18.58 in)	Line side			
Depth	237 mm (9.33 in)	Version	screw-type terminal		
Inputs / out	tputs	Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)		
itandard digital inputs		Motor end			
Number	6	Version	Screw-type terminals		
Switching level: 0→1	11 V	Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)		
Switching level: 1→0	5 V	DC link (for braking resistor))		
Max. inrush current	15 mA	Version	Screw-type terminals		
ail-safe digital inputs		Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)		
Number	1	Line length, max.	10 m (32.81 ft)		
Digital outputs		PE connection	Screw-type terminals		
Number as relay changeover contact	1	Max. motor cable length			
Output (resistive load)	DC 30 V, 0.5 A	Shielded	200 m (656.17 ft)		
Number as transistor	1	Unshielded	300 m (984.25 ft)		
Output (resistive load)	DC 30 V, 0.5 A	Standards			
nalog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)		
Number	1 (Differential input)				
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC		
witching threshold as digital in	out				
0→1	4 V				
1→0	1.6 V				
nalog 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 $\pm 5~^\circ\mathrm{C}$

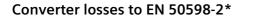


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Figure similar



Efficiency class IE2 Comparison with the reference converter (90% / -55.32 % 100%) •**0**-1112.0 W (2.14 %) 774.0 W (1.49 %) 904.0 W (1.40 %) 100% 447.0 W (0.86 %) 494.0 W (0.95 %) 561.0 W (1.08 %) 50% 388.0 W (0.65 %) 359 W (0.69 %) 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