

MLFB-Ordering data

6SL3210-1KE28-4UF1



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

Item no.: Consignment no. :

Project :

Remarks:

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Rated data		General tech. specifications	
Input		Power factor λ	0.90 0.95
Number of phases	3 AC	Offset factor cos φ	0.99
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.98
Line frequency	47 63 Hz	Sound pressure level (1m)	72 dB
Rated current (LO)	76.00 A	Power loss	1.01 kW
Rated current (HO)	69.00 A	Filter class (integrated)	Unfiltered
Output		-	
Number of phases	3 AC	Ambient conditions	
Rated voltage	400 V	Cooling	Air cooling using an integrated fan
Rated power IEC 400V (LO)	45.00 kW		2077 24 (4 242 (24)
Rated power NEC 480V (LO)	50.00 hp	Cooling air requirement	0.055 m³/s (1.942 ft³/s)
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	
Rated current (LO)	82.50 A	Operation	-20 40 °C (-4 104 °F)
Rated current (HO)	68.00 A	Transport	-40 70 °C (-40 158 °F)
Rated current (IN)	82.50 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 permitted
Output frequency for vector control	0 240 Hz		
		Closed-loop cont	ontrol techniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameterizable Yes	
		V/f with flux current control (FCC	C) Yes
Overload capability		V/f ECO linear / square-law	Yes
Low Overload (LO)		Sensorless vector control	Yes

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

No

No

No

Vector control, with sensor

Encoderless torque control

Torque control, with encoder



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			Figure	
Mechanical data		Com	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 1	
Height	472 mm (18.58 in)	Line side		
Depth	237 mm (9.33 in)	Version	screw-type terminal	
Inputs / outputs		Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG	
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	
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	
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	serew type terminals	
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		tandards	
Analog / digital inputs	,	Compliance with standards		
Number	1 (Differential input)	Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low-Vo Directive 2006/95/EC	
Switching threshold as digital in	put			
0→1	4 V			
1→0	1.6 V			
Analog outputs				
Number	1 (Non-isolated output)			
	. (Non isolated output)			

PTC/ KTY interface

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



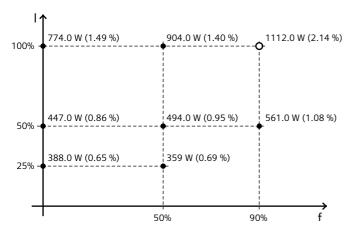
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Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-55.32 %



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