

MLFB-Ordering data

6SL3210-1KE27-0AF1



Client order no. : Order no. : Offer no. : Remarks : Item no. :
Consignment no. :
Project :

Rated data		General tecl	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)	64.00 A	Power loss	1.02 kW	
Rated current (HO)	61.00 A	Ambien	t conditions	
Output			A. II	
Number of phases	3 AC	Cooling	Air cooling using an integrated fan	
Rated voltage	400 V	Cooling air requirement	0.055 m³/s	
Rated power (LO)	37.00 kW	Installation altitude	1000 m	
Rated power (HO)	30.00 kW	Ambient temperature		
Rated current (IN)	68.00 A	Operation	-20 40 °C (-4 104 °F)	
Rated current (LO)	68.00 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (HO)	58.00 A	Storage	-40 70 °C (-40 158 °F)	
Max. output current	116.00 A	Relative humidity		
Pulse frequency	4 kHz	Max. operation	95 % RH, condensation not permitted	
Output frequency for vector control	0 240 Hz			
Output frequency for V/f control	0 550 Hz	Closed-loop co	ontrol techniques	
		V/f linear / square-law / paramet	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	PROFINET	



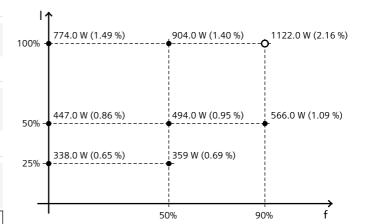
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Mechanical data		Coi	Connections	
Degree of protection	IP20 / UL open type	Signal cable		
Size	FSD	Conductor cross-section	0.15 1.50 mm² (28 16 AWG)	
Net weight	19.50 kg	Line side		
Width	200.0 mm	Version	screw-type terminal	
Height	472.0 mm	Conductor cross-section	10.00 35.00 mm² (8 2 AWG)	
Depth	237.0 mm	Motor end		
Inputs / ou	tputs	Version	Screw-type terminals	
Standard digital inputs		Conductor cross-section	10.00 35.00 mm² (8 2 AWG)	
Number	6	DC link (for braking resistor)		
Switching level: 0→1	11 V	Version	Screw-type terminals	
Switching level: 1→0	5 V	Conductor cross-section	10.00 35.00 mm² (8 2 AWG)	
Max. inrush current	15 mA	PE connection	Screw-type terminals	
Fail-safe digital inputs		Max. motor cable length		
Number	1	Shielded	200 m	
Digital outputs		Unshielded	300 m	
Number as relay changeover contact	1	Converter losses to EN 50598-2*		
Output (resistive load)	DC 30 V, 0.5 A	Efficiency class		
Number as transistor	1	Comparison with the reference of	IE2	

100%)



Comparison with the reference converter (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.

	(Sinci cinda input)
Analog outputs	

DC 30 V, 0.5 A

1 (Differential input)

Number

Output (resistive load)

Analog / digital inputs

Number 1 (Non-isolated output)

PTC/ KTY interface

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy ±5 °C

Standards

Compliance with standards UL, cUL, CE, C-Tick (RCM)

EMC Directive 2004/108/EC, Low-Voltage **CE** marking Directive 2006/95/EC

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

-54.91 %

^{*}converted values