

MLFB-Ordering data

6SL3230-2YE28-0AF0



Figure similar

Client order no. : Order no. : Offer no. : Remarks : Item 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	0.96	
Line voltage	380 480 \	/ +10 % -20 %	Efficiency η	0.98	
Line frequency	47 63 Hz		Sound pressure level (1m)	67 dB	
Rated voltage	400V IEC	480V NEC	Power loss	0.396 kW	
Rated current (LO)	29.50 A	29.50 A	Filter class (integrated)	RFI suppression filter for	
Rated current (HO)	23.97 A	24.50 A	, j ,	Category C2	
Dutput			EMC category (with accessories)	Category C2	
Number of phases	3 AC				
Rated voltage	400V IEC 480V NEC		Ambient conditions		
Rated power (LO)	15.00 kW	20.00 hp	Standard board coating type	Class 3C3, according to IEC 607 3: 2002	
Rated power (HO)	11.00 kW	15.00 hp			
Rated current (LO)	32.00 A	27.00 A	Cooling	Air cooling using an integrated	
Rated current (HO)	26.00 A	21.00 A			
Rated current (IN)	33.00 A		Cooling air requirement	0.018 m³/s (0.653 ft³/s)	
Max. output current	43.00 A		Installation altitude	1000 m (3280.84 ft)	
Pulse frequency	4 kHz		Ambient temperature		
Output frequency for vector control	0 200 Hz		Operation	-20 45 °C (-4 113 °F)	
			Transport	-40 70 °C (-40 158 °F)	
Output frequency for V/f control	0 550 Hz		Storage	-25 55 °C (-13 131 °F)	
			Relative humidity		
Overload capability			Max. operation	95 % At 40 °C (104 °F), conden and icing not permissible	

Overload capability

Low Overload (LO)

110% base load current IL for 60 s in a 300 s cycle time

High Overload (HO)

150% x base load current IH for 60 s within a 600 s cycle time



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F						

			Figure similar		
Mechanical data		Closed-loop control techniques			
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameteriz	able Yes		
Size	FSC				
Net weight	8 kg (16.89 lb)	V/f with flux current control (FCC)	Yes		
Width	140 mm (5.51 in)	V/f ECO linear / square-law	Yes		
Height	295 mm (11.61 in)	Sensorless vector control	Yes		
Depth	218 mm (8.58 in)	Vector control, with sensor	No		
Inputs / ou	tputs	Encoderless torque control	Yes		
Standard digital inputs		Torque control, with encoder	No		
Number	6				
Switching level: 0→1	11 V	Communication			
Switching level: 1→0	5 V	Communication	PROFINET, EtherNet/IP		
		Connections			
Max. inrush current	15 mA	Signal cable			
Fail-safe digital inputs	1	Conductor cross-section	0.15 1.50 mm ² (AWG 24 AWG 16)		
Digital outputs	'	Line side	(AWG 24 AWG 10)		
Digital outputs		Lille side			
Number as relay changeover contact	2	Version	screw-type terminal		
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	1.50 16.00 mm ² (AWG 16 AWG 6)		
Number as transistor	0	Motor end			
Analog / digital inputs		Version	Screw-type terminals		
Number	2 (Differential input)	Conductor cross-section	1.50 16.00 mm ² (AWG 16 AWG 6)		
Resolution	10 bit	DC link (for braking resistor)			
Switching threshold as digital in	put	PE connection	On housing with M4 screw		
0→1	4 V	Max. motor cable length	on nousing with with sciew		
1→0	1.6 V	Shielded	150 m (492.13 ft)		
Analog outputs		Sinciaca			

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PTC/ KTY interface

Number

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

1 (Non-isolated output)



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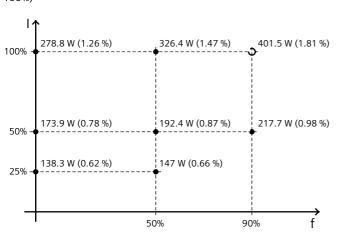
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Figure similar

Converter losses to EN 50598-2* Efficiency class IE2

Comparison with the reference converter (90% / 100%) -35.90 %



Standards

Compliance with standards UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH

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

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.

Operator panel: Basic Operator Panel (BOP-2)

S	Screen	Ambient conditions Ambient temperature during		
Display design	LCD, monochrome			
		Operation	0 50 °C (32 122 °F)	
Mech	anical data	Storage	-40 70 °C (-40 158 °F)	
Degree of protection	IP55 / UL type 12	Transport	-40 70 °C (-40 158 °F)	
Net weight	0.14 kg (0.31 lb)	Relative humidity at 25°C d	uring	
Width	70.0 mm (2.76 in)	Max. operation	95 %	
Height	106.85 mm (4.21 in)		Approvals	
Depth	19.60 mm (0.77 in)			
- 	15100 (6177)	Certificate of suitability	CE, cULus, EAC, KCC, RCM	

^{*}converted values