

MLFB-Ordering data

6SL3220-3YE48-0AF0



Figure similar

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

ltem no. :
Consignment no. :
Project :

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 voltage	400V IEC	480V NEC	Power loss	2.350 kW	
Rated current (LO)	247.00 A	232.00 A	Filter class (integrated)	RFI suppression filter for	
Rated current (HO)	218.00 A	191.00 A	Filter class (integrated)	Category C2	
Dutput			Ambient conditions		
Number of phases	3 AC				
Rated voltage	400V IEC	480V NEC	Cooling	Air cooling using an integrated fan	
Rated power (LO)	132.00 kW	200.00 hp	Cooling air requirement	0.153 m³/s (5.403 ft³/s)	
Rated power (HO)	110.00 kW	125.00 hp	Installation altitude	1000 m (3280.84 ft)	
Rated current (LO)	250.00 A	240.00 A	Ambient temperature		
Rated current (HO)	205.00 A	180.00 A	Operation	-20 45 °C (-4 113 °F)	
Rated current (IN)	256.00 A		Transport	-40 70 °C (-40 158 °F)	
Max. output current	338.00 A		Storage	-25 55 °C (-13 131 °F)	
Pulse frequency	4 kHz		Relative humidity		
Output frequency for vector control	0 200 Hz		Max. operation	95 % At 40 °C (104 °F), condensatio and icing not permissible	
Output frequency for V/f control 0 550 Hz			Closed-loop o	control techniques	
			V/f linear / square-law / parame	t erizable Yes	
Overload capability			V/f with flux current control (F0	CC) Yes	
Low Overload (LO)			V/f ECO linear / square-law	Yes	
			Sensorless vector control	Yes	

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

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

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

No

Yes

No



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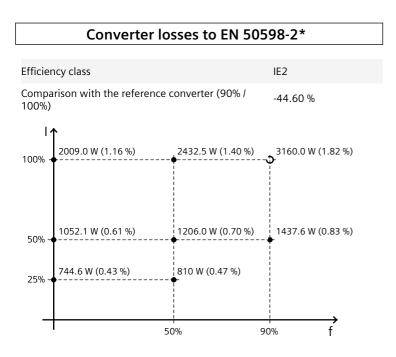
Figure similar

Mechanical data		Figure similar Communication	
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP
Size	FSF	Connections	
Net weight	71 kg (156.53 lb)	Signal cable	
Width	305 mm (12.01 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
Height	709 mm (27.91 in)	Line side	
Depth	360 mm (14.17 in)	Version	M10 screw
Inputs / out	puts	Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -3)
Standard digital inputs		Motor end	
Number	6	Version	M10 screw
Switching level: 0→1	11 V	Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -3)
Switching level: 1→0	5 V	DC link (for braking resistor)	
Max. inrush current	15 mA	PE connection	M10 screw
Fail-safe digital inputs		Max. motor cable length	
Number	1	Shielded	300 m (984.25 ft)
Digital outputs		Unshielded	450 m (1476.38 ft)
Number as relay changeover contact	2	Standards	
Output (resistive load)	DC 30 V, 5.0 A		UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEM F47, REACH
Number as transistor	0	Compliance with standards	
Analog / digital inputs			
Number	2 (Differential input)	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC
Resolution	10 bit		
Switching threshold as digital inp	out		
0→1	4 V		
1→0	1.6 V		
Analog outputs			
Number	1 (Non-isolated output)		
PTC/ KTY interface			



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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

Operator panel: Intelligent Operator Panel (IOP-2)

Screen		Ambi	Ambient conditions	
Display design	LCD colors	Ambient temperature during		
Screen resolution	320 x 240 Pixel	Operation	0 50 °C (32 122 °F)	
	320 X 240 PIXel		55 °C only with door mounting kit	
Mechanical data		Storage	-40 70 °C (-40 158 °F)	
Degree of protection	IP55 / UL type 12	Transport	-40 70 °C (-40 158 °F)	
Net weight	0.13 kg (0.30 lb)	Relative humidity at 25°C d	luring	
Width	70.0 mm (2.76 in)			
Height	106.85 mm (4.21 in)	Max. operation	95 %	
5			Approvals	
Depth	19.65 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM	