

MLFB-Ordering data

6SL3220-2YE46-0AF0



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated da	ata		General tec	h. specific	cations
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	2 dB
Rated voltage	400V IEC	480V NEC	Power loss	1.	830 kW
Rated current (LO)	203.00 A	174.00 A	Filter class (integrated)		I suppression filter for
Rated current (HO)	189.00 A	166.00 A	The class (integrated)	Ca	itegory C2
Output			Ambier	nt conditio	ons
Number of phases	3 AC				
Rated voltage	400V IEC	480V NEC	Cooling	Air coolir	ng using an integrated fan
Rated power (LO)	110.00 kW	150.00 hp	Cooling air requirement	0.153 m ²	³/s (5.403 ft³/s)
Rated power (HO)	90.00 kW	100.00 hp	Installation altitude	1000 m	(3280.84 ft)
Rated current (LO)	205.00 A	180.00 A	Ambient temperature		
Rated current (HO)	178.00 A	156.00 A	Operation	-20 45	5 °C (-4 113 °F)
Rated current (IN)	210.00 A		Transport	-40 70) °C (-40 158 °F)
Max. output current	277.00 A		Storage	-25 55	5 °C (-13 131 °F)
Pulse frequency	4 kHz		Relative humidity		
Output frequency for vector control	0 200 Hz		Max. operation		40 °C (104 °F), condensatior 1 not permissible
Output frequency for V/f control	0 550 Hz		Closed-loop c	Closed-loop control techniques	
			V/f linear / square-law / parame		Yes
Overload capability			V/f with flux current control (FC	C)	Yes
Low Overload (LO)			V/f ECO linear / square-law		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.

Sensorless vector control

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

Yes

No

Yes

No



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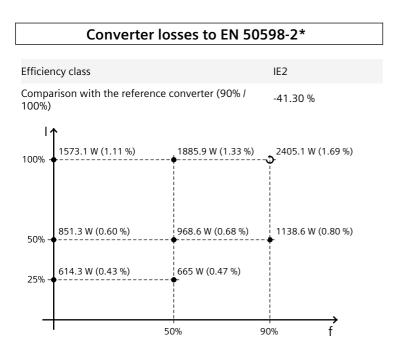
Figure similar

Mechanical	Mechanical data		Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP		
Size	FSF	Cor	nnections		
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	St	tandards		
Output (resistive load)	DC 30 V, 5.0 A				
Number as transistor	0	Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH		
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 in	aut				
0→1	4 V				
1→0	1.6 V				
Analog outputs					
Number	1 (Non-isolated output)				
PTC/ KTY interface					
1 motor temperature sensor input, sensor and Thermo-Click, accuracy ±5 °C	rs that can be connected: PTC, KTY				



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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: Basic Operator Panel (BOP-2)

Screen		Ambient conditions		
Display design	LCD, monochrome	Ambient temperature during		
		Operation	0 50 °C (32 122 °F)	
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	0.14 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)	/	νμμιοναις	
		Certificate of suitability	CE, cULus, EAC, KCC, RCM	



Figure similar