

MLFB-Ordering data

6SL3220-3YC40-0UF0



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	200 240 V +10 % -20 %		Efficiency η	0.97	
Line frequency	47 63 Hz		Sound pressure level (1m)	72 dB	
Rated voltage	200V IEC	240V NEC	Power loss	2.090 kW	
Rated current (LO)	172.00 A	172.00 A	1000011055	2.090 NW	
			Filter class (integrated)	Unfiltered	
Rated current (HO)	149.00 A	149.00 A		without	
Output	2.1.2		EMC category (with accessories)		
Number of phases	3 AC		Ambient conditions		
Rated voltage	200V IEC	240V NEC	Ambient	conditions	
Rated power (LO)	55.00 kW	75.00 hp	Standard board coating type	Class 3C2, according to IEC 60721-3 3: 2002	
Rated power (HO)	45.00 kW	60.00 hp			
Rated current (LO)	192.00 A	192.00 A	Cooling	Air cooling using an integrated fan	
Rated current (HO)	154.00 A	154.00 A			
Rated current (IN)	197.00 A		Cooling air requirement	0.153 m³/s (5.403 ft³/s)	
Max. output current	260.00 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)	
output nequency for vector control	0 200 112		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		
			Max. operation	95 % At 40 °C (104 °F), condensation 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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Mechanical data		Closed-loop co	ntrol techniques	Figure similar	
Degree of protection IP20 / UL open type					
Size	FSF	V/f linear / square-law / parameter	izable Yes		
Net weight	27 kg (58.86 lb)	V/f with flux current control (FCC)	Yes		
Width	305 mm (12.01 in)	V/f ECO linear / square-law	Yes		
Height	709 mm (27.91 in)	Sensorless vector control	Yes		
Depth	369 mm (14.53 in)	Vector control, with sensor	No		
Inputs / out		Encoderless torque control	Yes		
Standard digital inputs	P	┘ Torque control, with encoder	No		
Number	6				
Switching level: 0→1	11 V	Commu	Communication		
Switching level: 1→0	5 V	Communication	PROFINET, EtherNet/IP		
Max. inrush current		Connections			
	15 mA	Signal cable			
Fail-safe digital inputs	1	Conductor cross-section	0.15 1.50 mm ²		
Digital outputs	I	Line side	(AWG 24 AWG 16)		
		Version	M10 screw		
Number as relay changeover contact	2	version			
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	Conductor cross-section 35.00 120.00 mm² (AWG 1 AWG 4/0)		
Number as transistor	0	Motor end			
Analog / digital inputs		Version	M10 screw		
Number	2 (Differential input)	Conductor cross-section	35.00 120.00 mm² (AWG 1 AWG 4/0)		
Resolution	10 bit		(AWG 1 AWG 4/0)	J T AWG 4/0)	
Switching threshold as digital in	out	DC link (for braking resistor)			
		PE connection	M10 screw		
0→1	4 V	Max. motor cable length			
	1.6 V	Shielded	300 m (984.25 ft)		
Analog outputs		Unshielded	450 m (1476.38 ft)		
Number	1 (Non-isolated output)				
PTC/ KTY interface					

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

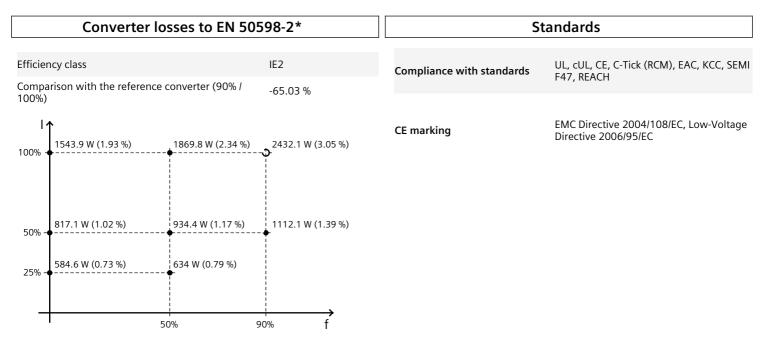


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Figure similar



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		Ambient conditions		
Display design	LCD colors	Ambient temperature durin	Ambient temperature during	
Screen resolution	320 x 240 Pixel	Operation	0 50 ℃ (32 122 °F) 55 ℃ 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)	Max. operation	95 %	
Height	106.85 mm (4.21 in)			
Depth	19.65 mm (0.77 in)	Certificate of suitability	Approvals CE, cULus, EAC, KCC, RCM	