

MLFB-Ordering data

6SL3220-3YC24-0UP0



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data			General tech	General tech. specifications		
Input			Power factor λ	0.70 0.85		
Number of phases	3 AC		Offset factor cos φ	0.96		
Line voltage	200 240 V +10 % -20 %		Efficiency η	0.97		
Line frequency	47 63 Hz		Sound pressure level (1m)	67 dB		
Rated voltage	200V IEC	240V NEC	Power loss	0.260 kW		
Rated current (LO)	26.30 A	26.30 A		Unfiltered		
Rated current (HO)	20.80 A	20.80 A	Filter class (integrated)			
Output			EMC category (with accessories)	without		
Number of phases	3 AC					
Rated voltage	200V IEC	240V NEC	Ambient conditions			
Rated power (LO)	7.50 kW	10.00 hp	Standard board coating type	Class 3C2, according to IEC 60721-3- 3: 2002		
Rated power (HO)	5.50 kW	7.50 hp				
Rated current (LO)	28.00 A	28.00 A	Cooling	Air cooling using an integrated fan		
Rated current (HO)	22.00 A	22.00 A				
Rated current (IN)	29.00 A		Cooling air requirement0.018 m³/s (0.653 ft³/s)			
Max. output current	37.80 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 ℃ (-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 control techniques			
Degree of protection	IP20 / UL open type		• • •		
Size	FSC	V/f linear / square-law / parameter	izable Yes	Yes	
Net weight	7 kg (15.65 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 / out		Encoderless torque control	Yes		
Standard digital inputs	•	┘ Torque control, with encoder	No		
Number	6				
Switching level: 0→1	11 V	Commu	Communication		
Switching level: 1→0	5 V	Communication	PROFIBUS DP		
Max. inrush current	15 mA	Connections			
Fail-safe digital inputs		Signal cable			
Number	1	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)		
Digital outputs		Line 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 mm² (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			
Resolution	10 bit	(AWG 16 AWG 6)			
Switching threshold as digital in	out	DC link (for braking resistor)			
0→1	4 V	PE connection	On housing with M4 scr	ew	
0→1 1→0	1.6 V	Max. motor cable length			
	1.0 V	Shielded	150 m (492.13 ft)		
Analog outputs		Unshielded	300 m (984.25 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 $\pm 5~^\circ\mathrm{C}$

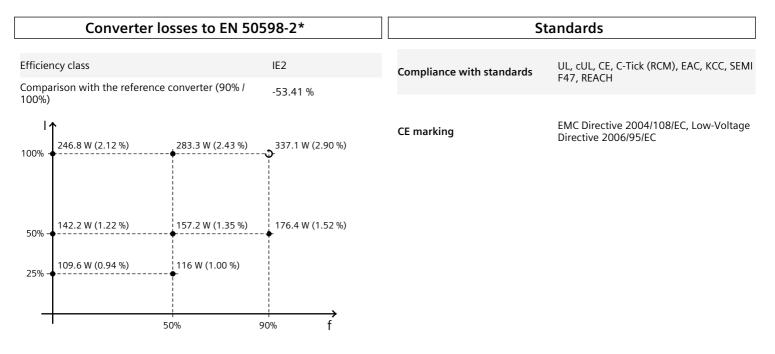


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The percentage values show the losses in relation to the rated apparent power of the converter.

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		Amb	Ambient conditions		
Display design	LCD colors	Ambient temperature dur	ing		
Screen resolution	320 x 240 Pixel	Operation	0 50 °C (32 122 °F)		
	520 / 2 10 11/01		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	during		
Width	70.0 mm (2.76 in)	Max. operation	95 %		
Height	106.85 mm (4.21 in)				
			Approvals		
Depth	19.65 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM		