

MLFB-Ordering data

6SL3220-3YE42-0AF0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data			General tech. specifications		
nput			Power factor λ	0.90 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	1.230 kW	
Rated current (LO)	144.00 A	120.00 A	Filter class (integrated)	RFI suppression filter fo Category C2	
Rated current (HO)	117.00 A	102.00 A	inter class (integrated)		
utput			EMC category (with accessories)	Category C2	
Number of phases	3 AC				
Rated voltage	400V IEC	480V NEC	Ambient conditions		
Rated power (LO)	75.00 kW	100.00 hp	Standard board coating type	Class 3C2, according to IEC 3: 2002	
Rated power (HO)	55.00 kW	60.00 hp			
Rated current (LO)	145.00 A	124.00 A	Cooling	Air cooling using an integra	
Rated current (HO)	110.00 A	96.00 A			
Rated current (IN)	149.00 A		Cooling air requirement	0.153 m³/s (5.403 ft³/s)	
Max. output current	196.00 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		
			Max appration	95 % At 40 °C (104 °F), con	

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

Max. operation

and icing not permissible



MLFB-Ordering data

6SL3220-3YE42-0AF0



Mechanical data		Closed-loop control techniques		
IP20 / UL open type	V/f linear / square-law / parameter	r izable Yes		
	V/f with flux current control (ECC)	Yes		
68 kg (149.91 lb)				
305 mm (12.01 in)	-			
709 mm (27.91 in)		No		
369 mm (14.53 in)		Yos		
tputs		Tes		
	Torque control, with encoder	No		
6	Communication			
11 V				
5 V				
15 mA				
	Signal cable			
1	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)		
	Line side			
2	Version	M10 screw		
DC 30 V, 5.0 A	Conductor cross-section	35.00 120.00 mm² (AWG 1 AWG 4/0)		
0	Motor end			
	Version	M10 screw		
2 (Differential input)	Conductor cross-section	35.00 120.00 mm² (AWG 1 AWG 4/0)		
10 bit				
put		M10 scrow		
4 V		WITO SCIEW		
1.6 V	-	150 m (492 13 ft)		
	Shielded	וו סכיי דעדי ווי סכיי		
1 (Non-isolated output)				
	IP20 / UL open type FSF 68 kg (149.91 lb) 305 mm (12.01 in) 709 mm (27.91 in) 369 mm (14.53 in) tputs 6 11 V 5 V 15 mA 2 DC 30 V, 5.0 A 0 2 (Differential input) 10 bit tul 4 V 1.6 V	IP20 / UL open type V/f linear / square-law / parameter 68 kg (149.91 lb) V/f with flux current control (FCC) 305 mm (12.01 in) Sensorless vector control 709 mm (27.91 in) Vector control, with sensor 369 mm (14.53 in) Encoderless torque control tputs Torque control, with encoder 6 Communication 5 V Conductor cross-section 11 V Conductor cross-section 12 mA Signal cable 12 cold of the sector Conductor cross-section 0 Motor end 0 Version 2 (Differential input) Conductor cross-section 10 bit DC link (for braking resistor) put PE connection 4 V Shielded	IP20 / UL open type FSF Vf linear / square-law / parameterizable Yes 68 kg (149.91 lb) Vf with flux current control (FCC) Yes 305 mm (12.01 in) Sensorless vector control Yes 709 mm (27.91 in) Sensorless vector control Yes 36 mm (14.53 in) Encoderless torque control Yes tputs Torque control, with encoder No 6 Communication PROFINET, EtherNet/IP 5 V Conductor cross-section 0.15 1.50 mm² (AWG 24 AWG 16) 1 Conductor cross-section 0.15 1.50 mm² (AWG 24 AWG 40) 0 Motor end Version M10 screw 2 (Differential input) Conductor cross-section 35.00 120.00 mm² (AWG 1 AWG 400) 0 Motor end Version M10 screw 2 (Differential input) Conductor cross-section 35.00 120.00 mm² (AWG 1 AWG 400) 0 Motor end Version M10 screw 4 V Av Max. motor cable length J150 m (492.13 ft)	

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

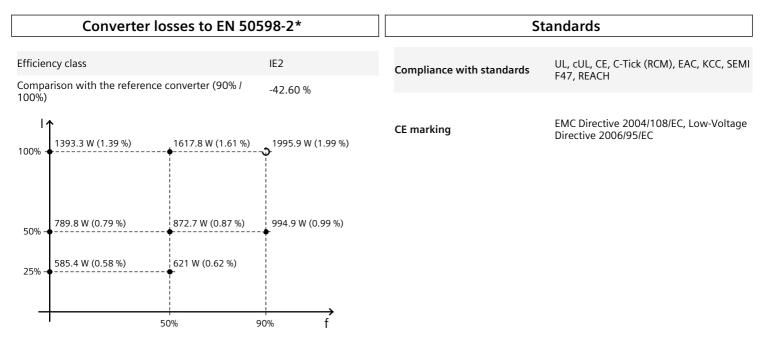


MLFB-Ordering data

6SL3220-3YE42-0AF0



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 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	