

MLFB-Ordering data

6SL3220-2YE42-0AF0



Figure similar

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

ltem 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	
Rated current (HO)	117.00 A	102.00 A		Category C2	
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 6 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)	
ulse frequency	4 kHz		Ambient temperature		
Dutput 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 operation	95 % At 40 °C (104 °F), conc	

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



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Masharia		Classed laser as		Figure similar
Mechanical	l data	Closed-loop co	ntrol techniques	
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameter	r izable Yes	
Size	FSF	V/f with flux current control (FCC)	Yes	
Net weight	68 kg (149.91 lb)	V/f ECO linear / square-law	Yes	
Width	305 mm (12.01 in)	Sensorless vector control	Yes	
Height	709 mm (27.91 in)	Vector control, with sensor	No	
Depth	369 mm (14.53 in)	Encoderless torque control	Yes	
Inputs / ou	tputs		163	
Standard digital inputs		Torque control, with encoder	No	
Number	6	Commu	inication	
Switching level: 0→1	11 V			
Switching level: 1→0	5 V	Communication	PROFINET, EtherNet/IP	
Max. inrush current	15 mA	Conne	ections	
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	M10 screw	
Output (resistive load)	DC 30 V, 5.0 A	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	DC link (for braking resistor)		
Switching threshold as digital in	put		M10	
0→1	4 V	PE connection Max. motor cable length	M10 screw	
1→0	1.6 V	Shielded	150 m (492.13 ft)	
Analog outputs		Sinciaca	150 m (152.15 m)	
Number	1 (Non-isolated output)			
PTC/ KTY interface				

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

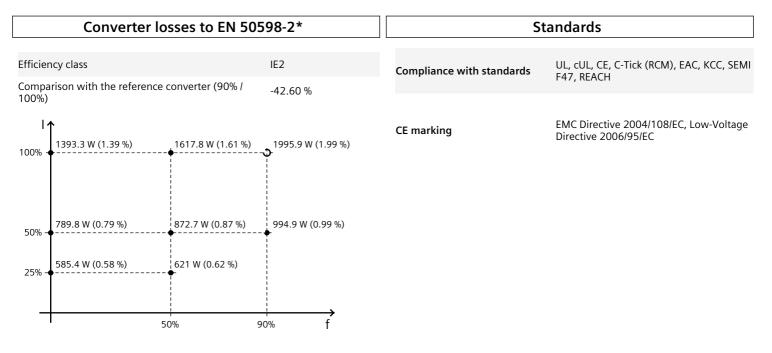


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The percentage values show the losses in relation to the rated apparent power of the converter.

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: 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)	Certificate of suitability	CE, cULus, EAC, KCC, RCM