

MLFB-Ordering data

6SL3220-2YE46-0UF0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		General tech	General tech. specifications		
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 dB	
Rated voltage	400V IEC	480V NEC	Power loss	1.830 kW	
Rated current (LO)	203.00 A	174.00 A	Filter class (integrated)	Unfiltered	
Rated current (HO)	189.00 A	166.00 A	The class (integrated)	Unintered	
Output			EMC category (with accessories)	without	
Number of phases	3 AC				
Rated voltage	400V IEC	480V NEC	Ambient conditions		
Rated power (LO)	110.00 kW	150.00 hp	Standard board coating type	Class 3C2, according to IEC 60721-3- 3: 2002	
Rated power (HO)	90.00 kW	100.00 hp			
Rated current (LO)	205.00 A	180.00 A	Cooling	Air cooling using an integrated fan	
Rated current (HO)	178.00 A	156.00 A			
Rated current (IN)	210.00 A		Cooling air requirement	0.153 m³/s (5.403 ft³/s)	
Max. output current	277.00 A		Installation altitude	1000 m (3280.84 ft)	
Pulse frequency	2 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. operation	95 % At 40 $^\circ$ C (104 $^\circ$ 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



MLFB-Ordering data

6SL3220-2YE46-0UF0



Mashawing	data	Closed lear set		Figure similar
Mechanical			ntrol techniques	
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameter	izable Yes	
Net weight	67 kg (147.71 lb)	V/f with flux current control (FCC)	Yes	
Width	-	V/f ECO linear / square-law	Yes	
	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 / out	tputs			
Standard digital inputs		Torque control, with encoder	No	
Number	6	Commu	inication	
Switching level: 0→1	11 V	Communication	PROFINET, EtherNet/IP	
Switching level: 1→0	5 V			
Max. inrush current	15 mA		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	PE connection	M10 screw	
0→1	4 V	Max. motor cable length		
1→0	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 $\pm 5~^\circ\mathrm{C}$

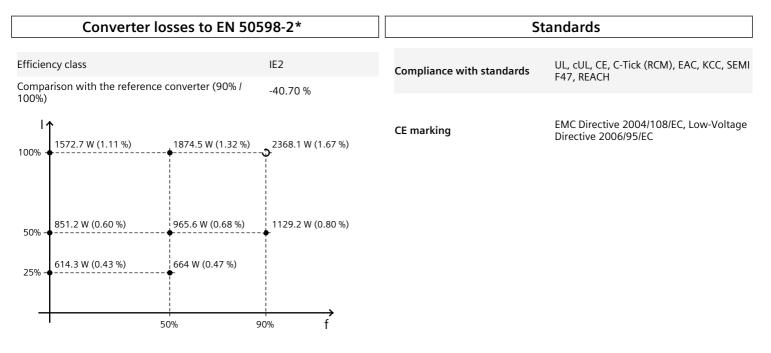


MLFB-Ordering data

6SL3220-2YE46-0UF0



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: Basic Operator Panel (BOP-2)

Screen		Ambi	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)			
Depth	19.60 mm (0.77 in)	Certificate of suitability	Approvals CE, cULus, EAC, KCC, RCM	