

MLFB-Ordering data

6SL3220-1YE38-0UP0



Figure similar

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

Item 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	380 480 V +10 % -20 %		Efficiency η	0.98	
Line frequency	47 63 Hz		Sound pressure level (1m)	70 dB	
Rated voltage	400V IEC	480V NEC	Power loss	1.020 kW	
Rated current (LO)	89.00 A	74.00 A	Filter class (integrated)	Unfiltered	
Rated current (HO)	78.00 A	69.00 A	The class (integrated)		
Dutput			EMC category (with accessories)	without	
Number of phases	3 AC				
Rated voltage	400V IEC	480V NEC	Ambient conditions		
Rated power (LO)	45.00 kW	60.00 hp	Standard board coating type	Class 3C2, according to IEC 60721- 3: 2002	
Rated power (HO)	37.00 kW	40.00 hp			
Rated current (LO)	90.00 A	77.00 A	Cooling	Air cooling using an integrated fan	
Rated current (HO)	75.00 A	65.00 A			
Rated current (IN)	93.00 A		Cooling air requirement0.083 m³/s (2.931 ft³/s)		
Max. output current	122.00 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 ℃ (-13 131 °F)	
			Relative humidity		
			Max operation	95 % At 40 °C (104 °F), condensati	

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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Mechanical data		Figure similar		
Degree of protection	IP20 / UL open type FSE	V/f linear / square-law / parameter	rizable Yes	
Net weight	27 kg (59.52 lb)	V/f with flux current control (FCC)	Yes	
-	-	V/f ECO linear / square-law	Yes	
Width	275 mm (10.83 in)	Sensorless vector control	Yes	
Height	551 mm (21.69 in)	Vector control, with sensor	No	
Depth	248 mm (9.76 in)	Encoderless torque control	Yes	
Inputs / outputs				
Standard digital inputs		Torque control, with encoder	No	
Number	6	Communication		
Switching level: 0→1	11 V	Communication	PROFIBUS DP	
Switching level: 1→0	5 V			
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	25.00 70.00 mm² (AWG 6 AWG 3/0)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version	Screw-type terminals	
Number	2 (Differential input)	Conductor cross-section 25.00 70.00 m		
Resolution	10 bit	DC link (for braking resistor)	(AWG 6 AWG 3/0)	
Switching threshold as digital in	Switching threshold as digital input		Commentaria in t	
0→1	4 V	PE connection Max. motor cable length	Screw-type terminals	
1→0	1.6 V	Shielded	200 m (656.17 ft)	
Analog outputs		Unshielded	300 m (984.25 ft)	
Number	1 (Non-isolated output)		500 m (50 h25 h)	
PTC/ KTY interface				

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

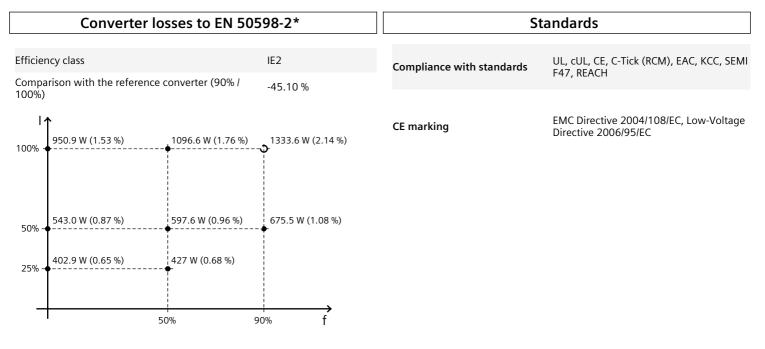


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The percentage values show the losses in relation to the rated apparent power of the converter.

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