

MLFB-Ordering data

6SL3230-2YE46-0AF0



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	1.830 kW
Rated current (LO)	203.00 A	174.00 A	Filter class (integrated)	RFI suppression filter for Category C2
Rated current (HO)	189.00 A	166.00 A		
Dutput			EMC category (with accessories)	Category C2
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 3C3, according to IEC 607 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
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 °C (104 °F), condens 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 co	Closed-loop control techniques		
Degree of protection	IP20 / UL open type	V/f linear / square-law / paramete	erizable Yes		
Size	FSF	We with flux assument control (FCC	Vac		
Net weight	71 kg (156.53 lb)	V/f with flux current control (FCC			
Width	305 mm (12.01 in)	V/f ECO linear / square-law Sensorless vector control	Yes		
Height	709 mm (27.91 in)	Vector control, with sensor	No		
Depth	369 mm (14.53 in)				
Inputs / ou	tputs	Encoderless torque control	Yes		
tandard digital inputs		Torque control, with encoder	No		
Number	6	Comm	unication		
Switching level: 0→1	11 V	Communication Communication PROFINET, EtherNet/IP			
Switching level: 1→0	5 V				
Max. inrush current	15 mA	Connections			
ail-safe digital inputs		Signal cable			
Number	1	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)		
igital 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			
nalog / 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)			
witching threshold as digital in	put	PE connection	M10 screw		
0→1	4 V	Max. motor cable length			
1→0	1.6 V	Shielded	150 m (492.13 ft)		
nalog outputs					
Number	1 (Non-isolated output)				
TC/ KTY interface					

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

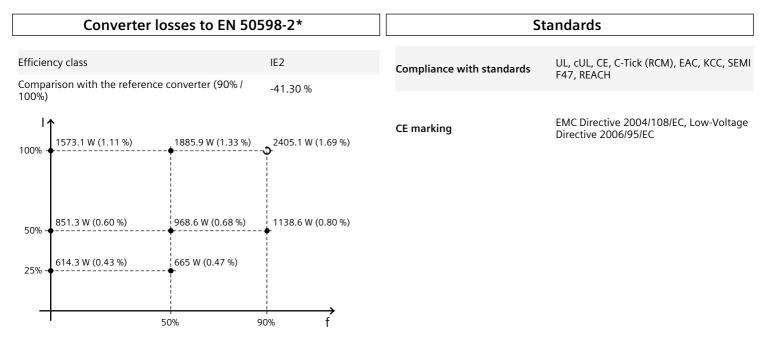


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The percentage values show the losses in relation to the rated apparent power of the converter.

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	luring
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