

MLFB-Ordering data

6SL3230-1YE44-1UP0



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

ltem 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)	72 dB	
Rated voltage	400V IEC	480V NEC	Power loss	1.570 kW	
Rated current (LO)	172.00 A	151.00 A	Filter class (integrated)	Unfiltered	
Rated current (HO)	154.00 A	132.00 A	The class (integrated)		
Output			EMC category (with accessories)	without	
Number of phases	3 AC				
Rated voltage	400V IEC	480V NEC	Ambient conditions		
Rated power (LO)	90.00 kW	125.00 hp	Standard board coating type	Class 3C3, according to IEC 60721-3 3: 2002	
Rated power (HO)	75.00 kW	100.00 hp			
Rated current (LO)	178.00 A	156.00 A	Cooling	Air cooling using an integrated fan	
Rated current (HO)	145.00 A	124.00 A			
Rated current (IN)	183.00 A		Cooling air requirement	0.153 m³/s (5.403 ft³/s)	
Max. output current	241.00 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 operation	95 % At 40 °C (104 °F), condensatio	

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 sim			
Degree of protection	IP20 / UL open type				
		V/f linear / square-law / paramete	rizable Yes		
Size	FSF	V/f with flux current control (FCC) Yes		
Net weight	61 kg (134.48 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 / out	tputs		103		
Standard digital inputs		Torque control, with encoder	No		
Number	6	Comm	unication		
Switching level: 0→1	11 V	Communication	PROFIBUS DP		
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)		
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 inp	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 $\pm 5~^\circ\mathrm{C}$

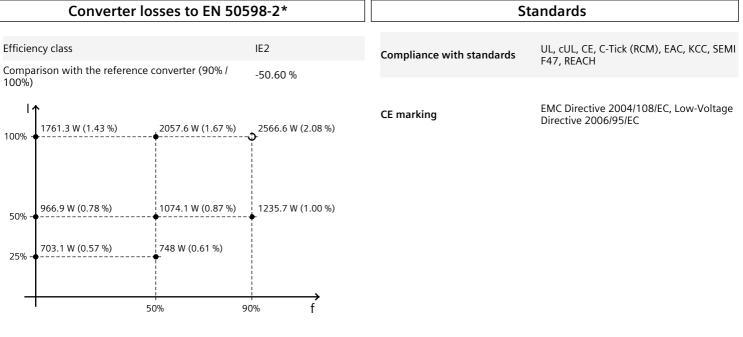


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Figure similar



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

I/O Extension Module

Technical specifications for the I/O Extension Modul are available via direct input (MLFB 6SL3255-0BE00-0AA0).