

# **MLFB-Ordering data**

6SL3230-3YE20-1AP0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data			General tech. specifications	
nput			Power factor λ	0.70 0.85
Number of phases	3 AC		Offset factor cos φ	0.96
Line voltage	380 480 V +10 % -20 %		Efficiency η	0.98
Line frequency	47 63 Hz		Sound pressure level (1m)	63 dB
Rated voltage	400V IEC	480V NEC	Power loss	0.138 kW
Rated current (LO)	9.75 A	8.00 A	Filter class (integrated)	RFI suppression filter for Category C2
Rated current (HO)	7.75 A	6.50 A	Filter class (integrated)	
utput			EMC category (with accessories)	Category C2
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Ambient conditions	
Rated power (LO)	4.00 kW	5.00 hp	Standard board coating type	Class 3C3, according to IEC 60721 3: 2002
Rated power (HO)	3.00 kW	4.00 hp		
Rated current (LO)	10.20 A	7.60 A	Cooling	Air cooling using an integrated fai
Rated current (HO)	7.70 A	6.20 A		
Rated current (IN)	10.50 A		Cooling air requirement	0.005 m³/s (0.177 ft³/s)
Max. output current	14.00 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), condensat 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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Mechanica Degree of protection Size	IP20 / UL open type		ntroi techniques		
	IP20 / UL open type		Closed-loop control techniques		
	FCD	V/f linear / square-law / paramete	rizable Yes		
	FSB	V/f with flux current control (FCC	) Yes		
Net weight	6 kg (13.58 lb)	V/f ECO linear / square-law	Yes		
Width	100 mm (3.94 in)	Sensorless vector control	Yes		
Height	275 mm (10.83 in)	Vector control, with sensor	No		
Depth	218 mm (8.58 in)	Encoderless torque control	Yes		
Inputs / ou	tputs		163		
Standard digital inputs		Torque control, with encoder	No		
Number	6	Comm			
Switching level: 0→1	11 V	Communication			
Switching level: 1→0	5 V	Communication PROFIBUS DP			
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	screw-type terminal		
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	1.50 6.00 mm² (AWG 16 AWG 10)		
Number as transistor	0	Motor end			
Analog / digital inputs		Version	Screw-type terminals		
Number	2 (Differential input)	Conductor cross-section	1.50 6.00 mm² (AWG 16 AWG 10)		
Resolution	10 bit	DC link (for braking resistor)			
Switching threshold as digital in	put	PE connection	On housing with M4 screw		
0→1	4 V	Max. motor cable length	on housing with with sciew		
1→0	1.6 V	Shielded	150 m (492.13 ft)		
Analog outputs					
Number	1 (Non-isolated output)				
PTC/ KTY interface					

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

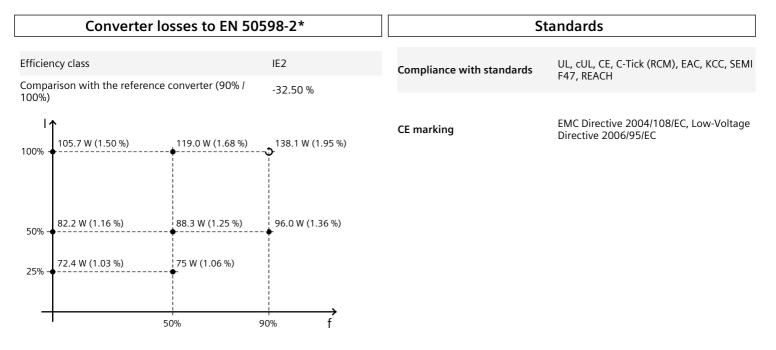


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The percentage values show the losses in relation to the rated apparent power of the converter.

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: Intelligent Operator Panel (IOP-2)**

Screen		Ambient conditions           Ambient temperature during	
Display design LCD colors			
Screen resolution		Operation	0 50 °C (32 122 °F)
	320 x 240 Pixel		55 °C only with door mounting kit
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	0.13 kg (0.30 lb)	Relative humidity at 25°C du	ıring
Width	70.0 mm (2.76 in)	Max. operation	95 %
Height	106.85 mm (4.21 in)		95 10
-		Approvals	
Depth	19.65 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM

# I/O Extension Module

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