

MLFB-Ordering data

6SL3220-2YE28-0AB0



Figure similar

Client order no. : Order no. : Offer no. : Item no. :
Consignment no. :
Project :

Remarks :		
Rated data		
Input		
Number of phases	3 AC	
Line voltage	380 480 V	+10 % -20 %
Line frequency	47 63 Hz	
Rated voltage	400V IEC	480V NEC
Rated current (LO)	29.50 A	29.50 A
Rated current (HO)	23.97 A	24.50 A
Output		
Number of phases	3 AC	

Rated Current (110)	23.97 A	24.30 A
Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC
Rated power (LO)	15.00 kW	20.00 hp
Rated power (HO)	11.00 kW	15.00 hp
Rated current (LO)	32.00 A	27.00 A
Rated current (HO)	26.00 A	21.00 A
Rated current (IN)	33.00 A	
Max. output current	43.00 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 200 Hz	
Output frequency for V/f control	0 550 Hz	

General tech. specifications		
Power factor λ	0.70 0.85	
Offset factor cos φ	0.96	
Efficiency η	0.98	
Sound pressure level (1m)	67 dB	
Power loss	0.396 kW	
Filter class (integrated)	RFI suppression filter for Category C2	
EMC category (with accessories)	Category C2	

Ambient conditions		
Standard board coating type	Class 3C2, according to IEC 60721-3-3: 2002	
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.018 m³/s (0.653 ft³/s)	
Installation altitude	1000 m (3280.84 ft)	
Ambient temperature		
Operation	-20 45 °C (-4 113 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-25 55 °C (-13 131 °F)	

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

Relative humidity

95 % At 40 °C (104 °F), condensation Max. operation and icing not permissible



MLFB-Ordering data

6SL3220-2YE28-0AB0



Figure simila

			Figure
Mechanical	data	Closed-loop co	ontrol techniques
Degree of protection	IP20 / UL open type	Wf linear / square-law / naramete	erizable Yes
Size	FSC	V/f linear / square-law / parameterizable Yes	
Net weight	8 kg (16.89 lb)	V/f with flux current control (FCC	Yes
Width	140 mm (5.51 in)	V/f ECO linear / square-law	Yes
Height	295 mm (11.61 in)	Sensorless vector control	Yes
Depth	218 mm (8.58 in)	Vector control, with sensor	No
Inputs / out	tputs	Encoderless torque control	Yes
tandard digital inputs		Torque control, with encoder	No
Number	6		
Switching level: 0→1	11 V	Communication	
Switching level: 1→0	5 V	Communication	USS, Modbus RTU, BACnet MS/TF
Max. inrush current	15 mA	Connections	
ail-safe digital inputs		Signal cable	
Number	1	Conductor cross-section	0.15 1.50 mm ² (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 16.00 mm² (AWG 16 AWG 6)
Number as transistor	0	Motor end	
Analog / digital inputs		Version	Screw-type terminals
Number	2 (Differential input)	Conductor cross-section	1.50 16.00 mm² (AWG 16 AWG 6)
Resolution	10 bit	5011.16	(AWG 10 AWG 0)
witching threshold as digital in	put	DC link (for braking resistor)	
		PE connection	On housing with M4 screw
0→1	4 V	Max. motor cable length	
1→0	1.6 V	Shielded	150 m (492.13 ft)
Analog outputs			
Number	1 (Non-isolated output)		
	·		

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

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

PTC/ KTY interface



MLFB-Ordering data

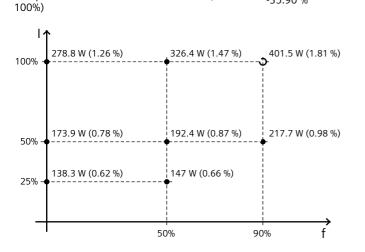
6SL3220-2YE28-0AB0



Figure similar

Efficiency class IE2 Comparison with the reference converter (90% / -35.90 %

Converter losses to EN 50598-2*



Standards

Compliance with standards UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH

CE marking EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC

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.

Operator panel: Basic Operator Panel (BOP-2)

S	creen	Ambi	ent conditions
Display design	LCD, monochrome	Ambient temperature during	
		Operation	0 50 °C (32 122 °F)
Mech	anical 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)	·	Approvals
Depth	19.60 mm (0.77 in)	<i>F</i>	Approvais
		Certificate of suitability	CE, cULus, EAC, KCC, RCM

^{*}converted values