

MLFB-Ordering data

6SL3220-2YE54-0AP0



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

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)	482.00 A	471.00 A
Rated current (HO)	400.00 A	392.00 A
Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC
Rated power (LO)	250.00 kW	400.00 hp
Rated power (HO)	200.00 kW	250.00 hp
Rated current (LO)	477.00 A	477.00 A
Rated current (HO)	370.00 A	361.00 A
Rated current (IN)	488.00 A	
Max. output current	644.00 A	
Pulse frequency	2 kHz	
Output frequency for vector control	0 200 Hz	
Output frequency for V/f control	0 550 Hz	

General tech. specifications		
Power factor λ	0.90 0.95	
Offset factor cos φ	0.99	
Efficiency η	0.98	
Sound pressure level (1m)	74 dB	
Power loss	6.180 kW	
Filter class (integrated)	RFI suppression filter for Category C2	
EMC category (with accessories)	Category C2	
Ambient conditions		
Standard heard coating type	Class 3C2, according to IEC 60721-3-	

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	0.210 m³/s (7.416 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)	

Relative humidity

	95 % At 40 °C (104 °F), condensation
Max. operation	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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IP20 / UL open type		ntrol techniques
	V/f linear / square-law / parameterizable Yes V/f with flux current control (FCC) Yes	
FSG		
120 kg (264.56 lb)		
305 mm (12.01 in)		
999 mm (39.33 in)		
369 mm (14.53 in)		No
outs	Encoderless torque control	Yes
	Torque control, with encoder	No
6	Commun	
11 V	Communication	
5 V		
15 mA	Connections	
	Signal cable	
1	Conductor cross-section	0.15 1.50 mm ² (AWG 24 AWG 16)
	Line side	
2	Version	M10 screw
DC 30 V, 5.0 A	Conductor cross-section	35.00 185.00 mm ² (AWG 1 MCM 2 x 350)
0	Motor end	
	Version	M10 screw
2 (Differential input)	Conductor cross-section	35.00 185.00 mm ² (AWG 1 MCM 2 x 350)
10 bit	DC link (for braking resistor)	(c
ut	<u> </u>	1440
4 V		M10 screw
	•	
	Shielded	150 m (492.13 ft)
	305 mm (12.01 in) 999 mm (39.33 in) 369 mm (14.53 in) outs 6 11 V 5 V 15 mA 1 2 DC 30 V, 5.0 A 0 2 (Differential input) 10 bit	305 mm (12.01 in) 999 mm (39.33 in) 369 mm (14.53 in) Final Signal cable Communication Conductor cross-section Line side Version Conductor cross-section Motor end Version 2 (Differential input) 10 bit DC link (for braking resistor) PE connection Max. motor cable length

Page 2 of 3

PTC/ KTY interface

Number

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

1 (Non-isolated output)



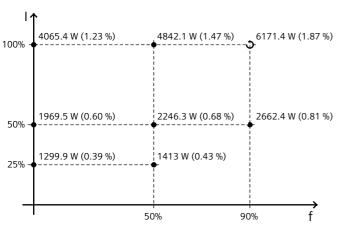
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Converter I	osses to	ΕN	50598-	2*
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Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-45.70 %



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.

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

Operator panel: Basic Operator Panel (BOP-2)

9	Screen	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	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

^{*}converted values