

Article No. : 6SL3220-3YH68-0CB0



Figure similar

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

Item no. :  
Consignment no. :  
Project :

### Rated data

#### Input

Number of phases	3 AC	
Line voltage	500 ... 690 V +10 % -10 %	
Line frequency	47 ... 63 Hz	
<b>Rated voltage</b>	<b>690V IEC</b>	<b>600V NEC</b>
Rated current (LO)	675.00 A	737.00 A
Rated current (HO)	552.00 A	602.00 A

#### Output

Number of phases	3 AC	
<b>Rated voltage</b>	<b>690V IEC</b>	<b>600V NEC<sup>1)</sup></b>
Rated power (LO)	630.00 kW	700.00 hp
Rated power (HO)	560.00 kW	500.00 hp
Rated current (LO)	650.00 A	679.00 A
Rated current (HO)	532.00 A	580.00 A
Rated current (IN)	725.00 A	
Max. output current	959.00 A	
Pulse frequency	2 kHz	
Output frequency for vector control	0 ... 100 Hz	
Output frequency for V/f control	0 ... 100 Hz	

#### 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 300 s cycle time	

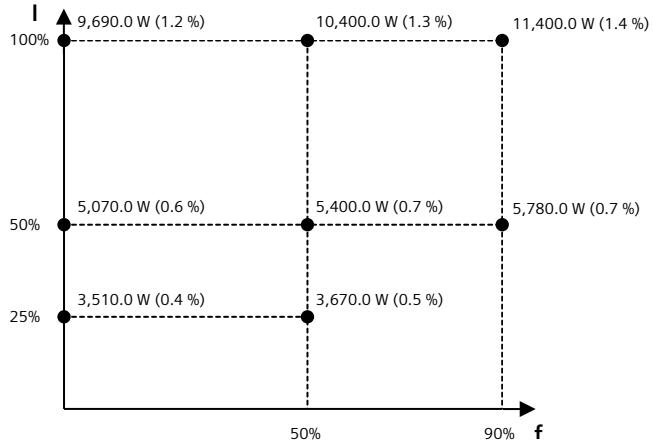
General tech. specifications	
Power factor $\lambda$	0.75 ... 0.93
Offset factor $\cos \varphi$	0.96
Efficiency $\eta$	0.98
Sound pressure level (1m)	74 dB
Power loss <sup>3)</sup>	11.400 kW
Filter class (integrated)	RFI suppression filter for Category C3
EMC category (with accessories)	Category C3
Safety function "Safe Torque Off"	without SIRIUS device (e.g. via S7-1500F)

### Communication

Communication USS, Modbus RTU, BACnet MS/TP

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Ambient conditions		Mechanical data	
Standard board coating type	Class 3C2, according to IEC 60721-3-3: 2002	Degree of protection	IP20 / UL open type
Cooling	Air cooling using an integrated fan	Frame size	FSJ
Cooling air requirement	0.450 m <sup>3</sup> /s (15.892 ft <sup>3</sup> /s)	Net weight	246 kg (542.34 lb)
Installation altitude	1,000 m (3,280.84 ft)	Dimensions	
Ambient temperature		Width	801 mm (31.54 in)
Operation	0 ... 45 °C (32 ... 113 °F)	Height	1,621 mm (63.82 in)
Transport	-40 ... 70 °C (-40 ... 158 °F)	Depth	393 mm (15.47 in)
Storage	-25 ... 55 °C (-13 ... 131 °F)	Standards	
Relative humidity		Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH
Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC
Connections			
Signal cable			
Conductor cross-section	0.15 ... 1.50 mm <sup>2</sup> (AWG 24 ... AWG 16)	Converter losses to IEC61800-9-2*	
Line side			
Version	M12 screw	Efficiency class	IE2
Conductor cross-section	6 x 240.00 mm <sup>2</sup> (MCM 4 x 500 ... MCM 6 x 500)	Comparison with the reference converter (90% / 100%)	35.1 %
Motor end			
Version	M12 screw		
Conductor cross-section	6 x 240.00 mm <sup>2</sup> (MCM 4 x 500 ... MCM 8 x 500)		
DC link (for braking resistor)			
PE connection	M12 screw		
Max. motor cable length			
Shielded	150 m (492.13 ft)		



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 IEC61800-9-2) 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.

\*calculated values

<sup>1)</sup>The output current and HP ratings are valid for the voltage range 550V-600V

<sup>2)</sup>Typical value. More information can be found in the element group "Converter losses to IEC 61800-9-2" in this datasheet.

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### Operator panel: Intelligent Operator Panel (IOP-2)

Screen		Ambient conditions	
Display design	LCD color	Ambient temperature	
Screen resolution	320 x 240 Pixel	Operation	0 ... 50 °C (32 ... 122 °F) 55 °C only with door installation kit
Mechanical data		Relative humidity at 25°C during	
Degree of protection	IP55 / UL type 12	Storage	-40 ... 70 °C (-40 ... 158 °F)
Net weight	0.134 kg (0.30 lb)	Transport	-40 ... 70 °C (-40 ... 158 °F)
Dimensions			
Width	70.00 mm (2.76 in)	Max. operation	95 %
Height	106.85 mm (4.21 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM
Depth	19.65 mm (0.77 in)	Approvals	

MLFB-Ordering data

6SL3000-0CH38-4AA0



Figure similar

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Project :

Remarks :

Rated data	Connections
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### Input

Number of phases 3 AC

Line voltage 500 ... 690 V

### Output

Rated current 840.0 A

### Load side

Version 1 x hole for M12

### Mechanical data

### Dimensions

Width 410.0 mm (16.1 in)

### PE connection

Height 385.0 mm (15.2 in)

Version M6 screw

Depth 224.0 mm (8.8 in)

Degree of protection IP00

Net weight 98.0 kg (216.0 lb)