



Figure similar

MLFB-Ordering data

6SL3210-1KE31-1UF1

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data	General tech. specifications																																								
Input <table> <tr> <td>Number of phases</td><td>3 AC</td></tr> <tr> <td>Line voltage</td><td>380 ... 480 V +10 % -20 %</td></tr> <tr> <td>Line frequency</td><td>47 ... 63 Hz</td></tr> <tr> <td>Rated current (LO)</td><td>96.00 A</td></tr> <tr> <td>Rated current (HO)</td><td>85.00 A</td></tr> </table>	Number of phases	3 AC	Line voltage	380 ... 480 V +10 % -20 %	Line frequency	47 ... 63 Hz	Rated current (LO)	96.00 A	Rated current (HO)	85.00 A	<table> <tr> <td>Power factor λ</td><td>0.90 ... 0.95</td></tr> <tr> <td>Offset factor $\cos \phi$</td><td>0.99</td></tr> <tr> <td>Efficiency η</td><td>0.98</td></tr> <tr> <td>Sound pressure level (1m)</td><td>71 dB</td></tr> <tr> <td>Power loss</td><td>1.54 kW</td></tr> <tr> <td>Filter class (integrated)</td><td>Unfiltered</td></tr> </table>	Power factor λ	0.90 ... 0.95	Offset factor $\cos \phi$	0.99	Efficiency η	0.98	Sound pressure level (1m)	71 dB	Power loss	1.54 kW	Filter class (integrated)	Unfiltered																		
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Mechanical data	
Degree of protection	IP20 / UL open type
Size	FSE
Net weight	26.50 kg (58.42 lb)
Width	275 mm (10.83 in)
Height	551 mm (21.69 in)
Depth	237 mm (9.33 in)
Inputs / outputs	

Standard digital inputs

Number	6
Switching level: 0→1	11 V
Switching level: 1→0	5 V
Max. inrush current	15 mA

Fail-safe digital inputs

Number	1
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Digital outputs

Number as relay changeover contact	1
Output (resistive load)	DC 30 V, 0.5 A
Number as transistor	1
Output (resistive load)	DC 30 V, 0.5 A

Analog / digital inputs

Number	1 (Differential input)
Resolution	10 bit

Switching threshold as digital input

0→1	4 V
1→0	1.6 V

Analog outputs

Number	1 (Non-isolated output)
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PTC/ KTY interface

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy ±5 °C
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Communication	
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Communication	PROFINET, EtherNet/IP
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Connections	
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Signal cable

Conductor cross-section	0.15 ... 1.50 mm² (AWG 24 ... AWG 16)
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Line side

Version	screw-type terminal
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Conductor cross-section	25.00 ... 70.00 mm² (AWG 4 ... AWG -1)
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Motor end

Version	Screw-type terminals
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Conductor cross-section	25.00 ... 70.00 mm² (AWG 4 ... AWG -1)
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DC link (for braking resistor)

Version	Screw-type terminals
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Conductor cross-section	25.00 ... 70.00 mm² (AWG 4 ... AWG -1)
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Line length, max.	10 m (32.81 ft)
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PE connection	Screw-type terminals
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Max. motor cable length

Shielded	200 m (656.17 ft)
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Unshielded	300 m (984.25 ft)
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Standards	
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Compliance with standards	UL, cUL, CE, C-Tick (RCM)
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CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC
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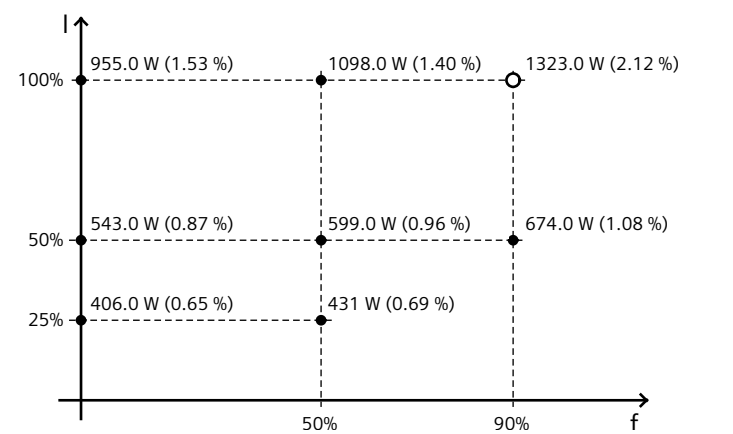
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-55.37 %



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