



Figure similar

MLFB-Ordering data

6SL3210-1KE21-3AB1

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>16.50 A</td></tr> <tr> <td>Rated current (HO)</td><td>12.80 A</td></tr> </table>	Number of phases	3 AC	Line voltage	380 ... 480 V +10 % -20 %	Line frequency	47 ... 63 Hz	Rated current (LO)	16.50 A	Rated current (HO)	12.80 A	<table> <tr> <td>Power factor λ</td><td>0.70 ... 0.85</td></tr> <tr> <td>Offset factor $\cos \varphi$</td><td>0.95</td></tr> <tr> <td>Efficiency η</td><td>0.97</td></tr> <tr> <td>Sound pressure level (1m)</td><td>63 dB</td></tr> <tr> <td>Power loss</td><td>0.18 kW</td></tr> <tr> <td>Filter class (integrated)</td><td>Class A</td></tr> </table>	Power factor λ	0.70 ... 0.85	Offset factor $\cos \varphi$	0.95	Efficiency η	0.97	Sound pressure level (1m)	63 dB	Power loss	0.18 kW	Filter class (integrated)	Class A																		
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Mechanical data	
Degree of protection	IP20 / UL open type
Size	FSB
Net weight	2.30 kg (5.07 lb)
Width	100 mm (3.94 in)
Height	196 mm (7.72 in)
Depth	203 mm (7.99 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	USS/MODBUS RTU
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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	Plug-in screw terminals
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Conductor cross-section	4.00 ... 6.00 mm² (AWG 12 ... AWG 10)
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Motor end

Version	Plug-in screw terminals
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Conductor cross-section	4.00 ... 6.00 mm² (AWG 12 ... AWG 10)
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DC link (for braking resistor)

Version	Plug-in screw terminals
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Conductor cross-section	4.00 ... 6.00 mm² (AWG 12 ... AWG 10)
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Line length, max.	15 m (49.21 ft)
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PE connection	On housing with M4 screw
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Max. motor cable length

Shielded	50 m (164.04 ft)
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Unshielded	150 m (492.13 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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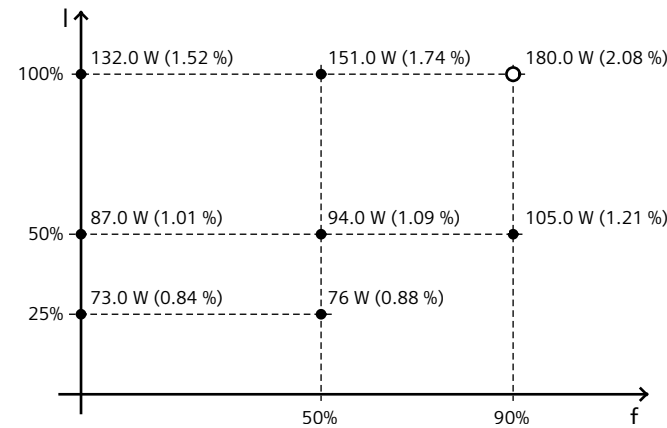
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-65.39 %



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