



Figure similar

### MLFB-Ordering data

6SL3210-1PC22-8AL0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data		General tech. specifications	
<b>Input</b>		<b>Power factor <math>\lambda</math></b>	0.85
Number of phases	3 AC	<b>Offset factor <math>\cos \varphi</math></b>	0.95
Line voltage	200 ... 240 V $\pm 10\%$	<b>Efficiency <math>\eta</math></b>	0.97
Line frequency	47 ... 63 Hz	<b>Sound pressure level (1m)</b>	65 dB
Rated current (LO)	37.00 A	<b>Power loss</b>	0.26 kW
Rated current (HO)	33.00 A	<b>Filter class (integrated)</b>	Class A
<b>Output</b>		<b>Ambient conditions</b>	
Number of phases	3 AC	<b>Cooling</b>	Internal air cooling
Rated voltage	230 V	<b>Cooling air requirement</b>	0.018 m <sup>3</sup> /s (0.653 ft <sup>3</sup> /s)
Rated current (LO)	28.00 A	<b>Installation altitude</b>	1000 m (3280.84 ft)
Rated current (HO)	22.00 A	<b>Ambient temperature</b>	
Max. output current	44.00 A	<b>Operation LO</b>	-5 ... 40 °C (23 ... 104 °F)
Rated power IEC 230V (LO)	7.50 kW	<b>Operation HO</b>	-5 ... 50 °C (23 ... 122 °F)
Rated power NEC 240V (LO)	10.00 hp	<b>Transport</b>	-25 ... 55 °C (-13 ... 131 °F)
Rated power IEC 230V (HO)	5.50 kW	<b>Storage</b>	-25 ... 55 °C (-13 ... 131 °F)
Rated power NEC 240V (HO)	7.50 hp	<b>Relative humidity</b>	
Pulse frequency	4 kHz	<b>Max. operation</b>	95 % RH, condensation not permitted
Output frequency for vector control	0 ... 200 Hz		
Output frequency for V/f control	0 ... 550 Hz		

### Overload capability

#### Low Overload (LO)

1.1 x rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s 1.5 x rated output current (i.e. 150 % overload) for 3 s with a cycle time of 300 s

#### High Overload (HO)

1.5 x output current rating (i.e., 150 % overload) for 57 s with a cycle time of 300 s 2 x output current rating (i.e., 200 % overload) for 3 s with a cycle time of 300 s



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### Mechanical data

Degree of protection	IP20 / UL open type
Size	FSC
Net weight	5.20 kg (11.46 lb)
Width	140 mm (5.51 in)
Height	355 mm (13.98 in)
Depth	165 mm (6.50 in)

### Connections

#### Line side

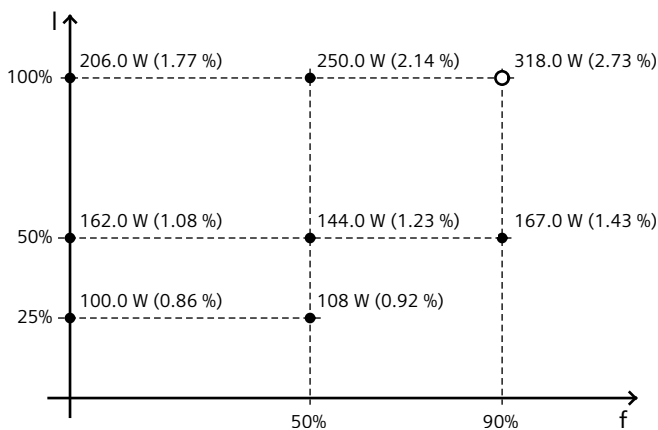
Version	Plug-in screw terminals
Conductor cross-section	6.00 ... 16.00 mm <sup>2</sup> (AWG 10 ... AWG 6)

#### Motor end

Version	Plug-in screw terminals
Conductor cross-section	6.00 ... 16.00 mm <sup>2</sup> (AWG 10 ... AWG 6)

### Converter losses to EN 50598-2\*

Comparison with the reference converter (90% / 100%) -50.24 %



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

### Max. motor cable length

Shielded	50 m (164.04 ft)
Unshielded	100 m (328.08 ft)

### Standards

Compliance with standards	UL, cUL, CE, C-Tick (RCM), SEMI F47
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CE marking Low-voltage directive 2006/95/EC