



Figure similar

### MLFB-Ordering data

6SL3210-1PE12-3AL1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

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 \phi</math></b>	0.95
Line voltage	380 ... 480 V $\pm 10\%$	<b>Efficiency <math>\eta</math></b>	0.96
Line frequency	47 ... 63 Hz	<b>Sound pressure level (1m)</b>	72 dB
Rated current (LO)	2.90 A	<b>Power loss</b>	0.04 kW
Rated current (HO)	2.60 A	<b>Ambient conditions</b>	
<b>Output</b>		<b>Cooling</b>	Internal air cooling
Number of phases	3 AC	<b>Cooling air requirement</b>	0.005 m <sup>3</sup> /s
Rated voltage	400 V	<b>Installation altitude</b>	1000 m
Rated power (LO)	0.75 kW / 1.00 hp	<b>Ambient temperature</b>	
Rated power (HO)	0.55 kW / 0.75 hp	<b>Operation LO</b>	-5 ... 40 °C (23 ... 104 °F)
Rated current (LO)	2.20 A	<b>Operation HO</b>	-5 ... 50 °C (23 ... 122 °F)
Rated current (HO)	1.70 A	<b>Transport</b>	-40 ... 70 °C (-40 ... 158 °F)
Max. output current	3.40 A	<b>Storage</b>	-25 ... 55 °C (-13 ... 131 °F)
Pulse frequency	4 kHz	<b>Relative humidity</b>	
Output frequency for vector control	0 ... 200 Hz	<b>Max. operation</b>	95 % RH, condensation not permitted
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



Figure similar

MLFB-Ordering data

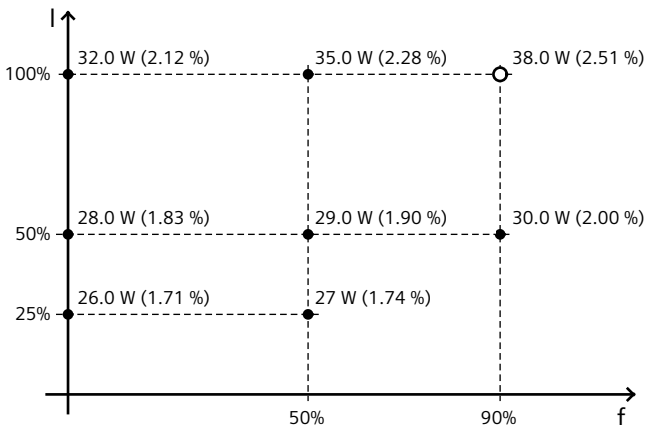
6SL3210-1PE12-3AL1

### Mechanical data

Degree of protection	IP20
Size	FSA
Net weight	1.50 kg
Width	73.0 mm
Height	196.0 mm
Depth	165.0 mm

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

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-77.22 %



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.

\*calculated values; increased by 10% according to the standard

### Connections

#### Line side

Version	Plug-in screw terminals
Conductor cross-section	1.00 ... 2.50 mm <sup>2</sup>

#### Motor end

Version	Plug-in screw terminals
Conductor cross-section	1.00 ... 2.50 mm <sup>2</sup>

### Max. motor cable length

Shielded	50 m
Unshielded	100 m

### Standards

Compliance with standards	UL, cUL, CE, C-Tick (RCM), SEMI F47
---------------------------	-------------------------------------

CE marking	Low-voltage directive 2006/95/EC
------------	----------------------------------