



Figure similar

### MLFB-Ordering data

6SL3210-1PE31-8UL0

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>	0.95
Number of phases	3 AC	<b>Offset factor <math>\cos \phi</math></b>	0.99
Line voltage	380 ... 480 V $\pm 10\%$	<b>Efficiency <math>\eta</math></b>	0.98
Line frequency	47 ... 63 Hz	<b>Sound pressure level (1m)</b>	68 dB
Rated current (LO)	172.00 A	<b>Power loss</b>	2.31 kW
Rated current (HO)	154.00 A	<b>Filter class (integrated)</b>	-
<b>Output</b>		<b>Ambient conditions</b>	
Number of phases	3 AC	<b>Cooling</b>	Internal air cooling
Rated voltage	400 V	<b>Cooling air requirement</b>	0.153 m <sup>3</sup> /s (5.403 ft <sup>3</sup> /s)
Rated current (LO)	178.00 A	<b>Installation altitude</b>	1000 m (3280.84 ft)
Rated current (HO)	145.00 A	<b>Ambient temperature</b>	
Max. output current	290.00 A	<b>Operation LO</b>	-20 ... 40 °C (-4 ... 104 °F)
Rated power IEC 400V (LO)	90.00 kW	<b>Operation HO</b>	-20 ... 50 °C (-4 ... 122 °F)
Rated power NEC 480V (LO)	125.00 hp	<b>Transport</b>	-40 ... 70 °C (-40 ... 158 °F)
Rated power IEC 400V (HO)	75.00 kW	<b>Storage</b>	-40 ... 70 °C (-40 ... 158 °F)
Rated power NEC 480V (HO)	100.00 hp	<b>Relative humidity</b>	
Pulse frequency	2 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



Figure similar

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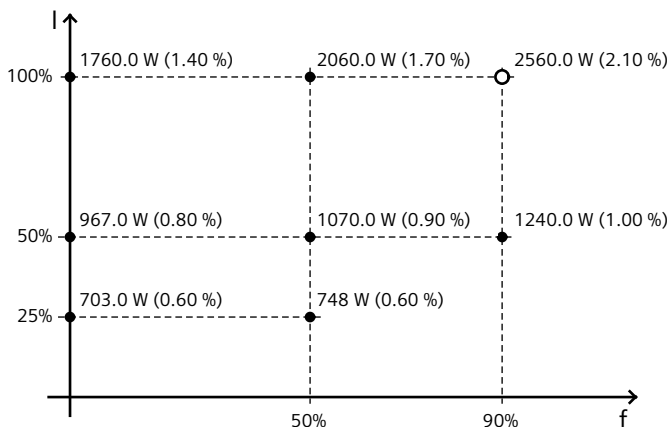
6SL3210-1PE31-8UL0

### Mechanical data

Degree of protection	IP20 / UL open type
Size	FSF
Net weight	57.00 kg (125.66 lb)
Width	305 mm (12.01 in)
Height	708 mm (27.87 in)
Depth	357 mm (14.06 in)

### Converter losses to IEC61800-9-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	50.60 %



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.

\*converted values

### Connections

#### Line side

Version	M10 bolt
Conductor cross-section	35.00 ... 120.00 mm <sup>2</sup> (AWG 2 ... AWG -3)

#### Motor end

Version	M10 bolt
Conductor cross-section	35.00 ... 120.00 mm <sup>2</sup> (AWG 2 ... AWG -3)

#### DC link (for braking resistor)

Version	Screw-type terminals
Conductor cross-section	25.00 ... 70.00 mm <sup>2</sup> (AWG 4 ... AWG -1)
Cable length	10 m (32.81 ft)
PE connection	M10 screw studs

#### Max. motor cable length

Shielded	300 m (984.25 ft)
Unshielded	450 m (1476.38 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
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