



Figure similar

### MLFB-Ordering data

6SL3210-1PE31-1UL0

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>	71 dB
Rated current (LO)	104.00 A	<b>Power loss</b>	1.54 kW
Rated current (HO)	94.00 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>	0.083 m <sup>3</sup> /s (2.931 ft <sup>3</sup> /s)
Rated current (LO)	110.00 A	<b>Installation altitude</b>	1000 m (3280.84 ft)
Rated current (HO)	90.00 A	<b>Ambient temperature</b>	
Max. output current	180.00 A	<b>Operation LO</b>	-20 ... 40 °C (-4 ... 104 °F)
Rated power IEC 400V (LO)	55.00 kW	<b>Operation HO</b>	-20 ... 50 °C (-4 ... 122 °F)
Rated power NEC 480V (LO)	75.00 hp	<b>Transport</b>	-40 ... 70 °C (-40 ... 158 °F)
Rated power IEC 400V (HO)	45.00 kW	<b>Storage</b>	-40 ... 70 °C (-40 ... 158 °F)
Rated power NEC 480V (HO)	60.00 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



Figure similar

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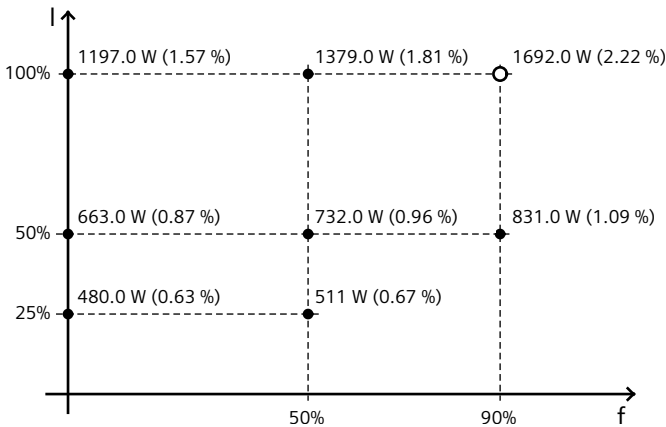
6SL3210-1PE31-1UL0

### Mechanical data

Degree of protection	IP20 / UL open type
Size	FSE
Net weight	26.00 kg (57.32 lb)
Width	275 mm (10.83 in)
Height	551 mm (21.69 in)
Depth	237 mm (9.33 in)

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

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-53.16 %



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

### Connections

#### Line side

Version	screw-type terminal
Conductor cross-section	25.00 ... 70.00 mm <sup>2</sup> (AWG 4 ... AWG -1)

#### Motor end

Version	Screw-type terminals
Conductor cross-section	25.00 ... 70.00 mm <sup>2</sup> (AWG 4 ... AWG -1)

#### DC link (for braking resistor)

Version	Screw-type terminals
Conductor cross-section	10.00 ... 35.00 mm <sup>2</sup> (AWG 8 ... AWG 2)
Cable length	10 m (32.81 ft)
PE connection	Screw-type terminals

#### Max. motor cable length

Shielded	200 m (656.17 ft)
Unshielded	300 m (984.25 ft)

### Standards

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

CE marking Low-voltage directive 2006/95/EC