

Ordering data

6SL3210-1PE27-5AL0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Figure similar

Rated data		General tech. specifications	
Input		Power factor λ	0.95
Number of phases	3 AC	Offset factor $\cos \varphi$	0.99
Line voltage	380 ... 480 V $\pm 10\%$	Efficiency η	0.98
Line frequency	47 ... 63 Hz	Sound pressure level (1m)	72 dB
Rated current (LO)	70.00 A	Power loss	1.02 kW
Rated current (HO)	62.00 A	Ambient conditions	
Output		Cooling	Internal air cooling
Number of phases	3 AC	Cooling air requirement	0.055 m ³ /s
Rated voltage	400 V	Installation altitude	1000 m
Rated power (LO)	37.00 kW / 50.00 hp	Ambient temperature	
Rated power (HO)	30.00 kW / 40.00 hp	Operation LO	-20 ... 40 °C (-4 ... 104 °F)
Rated current (LO)	75.00 A	Operation HO	-20 ... 50 °C (-4 ... 122 °F)
Rated current (HO)	60.00 A	Transport	-40 ... 70 °C (-40 ... 158 °F)
Max. output current	120.00 A	Storage	-40 ... 70 °C (-40 ... 158 °F)
Pulse frequency	4 kHz	Relative humidity	
Output frequency for vector control	0 ... 200 Hz	Max. operation	95 % RH, condensation not permitted
Output frequency for V/f control	0 ... 550 Hz		

Overload capability

Low Overload (LO)

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

High Overload (HO)

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

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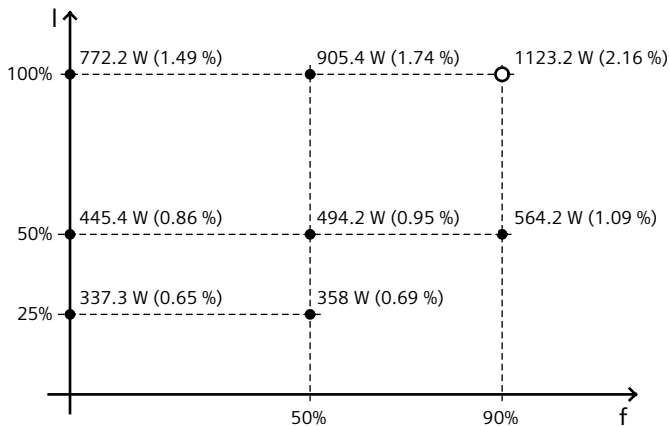
Figure similar

Mechanical data

Degree of protection	IP20
Size	FSD
Net weight	18.50 kg
Width	200.0 mm
Height	472.0 mm
Depth	237.0 mm

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-0.46 %



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	screw-type terminal
Conductor cross-section	10.00 ... 35.00 mm ²

Motor end

Version	Screw-type terminals
Conductor cross-section	10.00 ... 35.00 mm ²

DC link (for braking resistor)

Version	Screw-type terminals
Conductor cross-section	2.50 ... 16.00 mm ²
PE connection	Screw-type terminals

Max. motor cable length

Shielded	200 m
Unshielded	300 m

Standards

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