



Figure similar

Article No. :

6SL3210-1RH23-5AL0

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

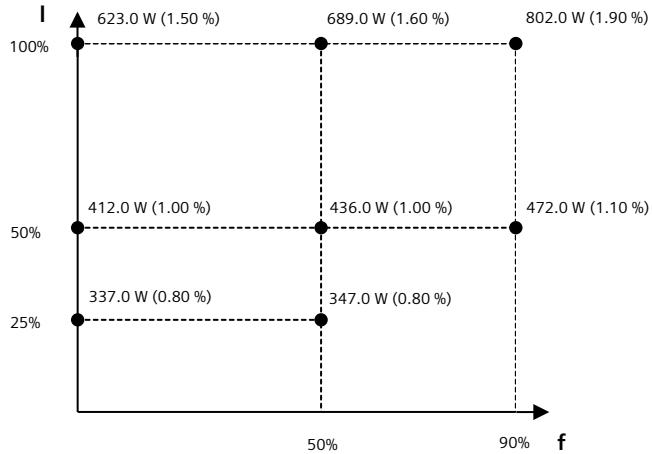
Rated data		
<b>Input</b>		
Number of phases	3 AC	
Line voltage	500 ... 690 V $\pm 10\%$	
Line frequency	47 ... 63 Hz	
Rated current (LO)	33.00 A	
Rated current (HO)	28.00 A	
<b>Output</b>		
Number of phases	3 AC	
<b>Rated voltage</b>	<b>690V IEC</b>	<b>600V NEC<sup>1)</sup></b>
Rated power (LO)	30.00 kW	30.00 hp
Rated power (HO)	22.00 kW	25.00 hp
Rated current (LO)	35.00 A	
Rated current (HO)	27.00 A	
Max. output current	48.00 A	
Pulse frequency	2 kHz	
Output frequency for vector control	0 ... 200 Hz	
Output frequency for V/f control	0 ... 550 Hz	
<b>Overload capability</b>		
Low Overload (LO)	1.1 x rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s 1.35 x rated output current (i.e. 135 % 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 60 s with a cycle time of 300 s	

General tech. specifications	
Power factor $\lambda$	0.90
Offset factor $\cos \varphi$	0.99
Efficiency $\eta$	0.98
Sound pressure level (1m)	72 dB
Power loss	0.78 kW
Filter class (integrated)	Class A

Ambient conditions	
Cooling	Internal air cooling
Cooling air requirement	0.055 m <sup>3</sup> /s (1.942 ft <sup>3</sup> /s)
Installation altitude	1,000 m (3,280.84 ft)
<b>Ambient temperature</b>	
Operation LO	-20 ... 40 °C (-4 ... 104 °F)
Operation HO	-20 ... 50 °C (-4 ... 122 °F)
Transport	-40 ... 70 °C (-40 ... 158 °F)
Storage	-40 ... 70 °C (-40 ... 158 °F)
<b>Relative humidity</b>	
Max. operation	95 % RH, condensation not permitted
Connections	
<b>Line side</b>	
Version	screw-type terminal
Conductor cross-section	10.00 ... 35.00 mm <sup>2</sup> (AWG 8 ... AWG 2)
<b>Motor end</b>	
Version	Screw-type terminals
Conductor cross-section	10.00 ... 35.00 mm <sup>2</sup> (AWG 8 ... AWG 2)
<b>Max. motor cable length</b>	
Shielded	200 m (656.17 ft)
Unshielded	300 m (984.25 ft)
Mechanical data	
Degree of protection	IP20 / UL open type
Frame size	FSD
Net weight	18.90 kg (41.67 lb)
<b>Dimensions</b>	
Width	200 mm (7.87 in)
Height	472 mm (18.58 in)
Depth	237 mm (9.33 in)
Standards	
Compliance with standards	UL, cUL, CE, C-Tick (RCM), SEMI F47
CE marking	Low-voltage directive 2006/95/EC

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Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	40.00 %



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

<sup>1)</sup>The output current and HP ratings are valid for the voltage range 550V-600V