



Figure similar

### MLFB-Ordering data

6SL3210-1RH31-0AL0

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>	0.90
<b>Number of phases</b>	3 AC	<b>Offset factor <math>\cos \varphi</math></b>	0.99
<b>Line voltage</b>	500 ... 690 V $\pm 10$ %	<b>Efficiency <math>\eta</math></b>	0.99
<b>Line frequency</b>	47 ... 63 Hz	<b>Sound pressure level (1m)</b>	68 dB
<b>Rated current (LO)</b>	97.00 A	<b>Power loss</b>	1.76 kW
<b>Rated current (HO)</b>	85.00 A	<b>Ambient conditions</b>	
<b>Output</b>		<b>Cooling</b>	Internal air cooling
<b>Number of phases</b>	3 AC	<b>Cooling air requirement</b>	0.153 m <sup>3</sup> /s
<b>Rated voltage</b>	690 V	<b>Installation altitude</b>	1000 m
<b>Rated power (LO)</b>	90.00 kW / 100.00 hp	<b>Ambient temperature</b>	
<b>Rated power (HO)</b>	75.00 kW / 75.00 hp	<b>Operation LO</b>	-20 ... 40 °C (-4 ... 104 °F)
<b>Rated current (LO)</b>	100.00 A	<b>Operation HO</b>	-20 ... 50 °C (-4 ... 122 °F)
<b>Rated current (HO)</b>	80.00 A	<b>Transport</b>	-40 ... 70 °C (-40 ... 158 °F)
<b>Max. output current</b>	135.00 A	<b>Storage</b>	-40 ... 70 °C (-40 ... 158 °F)
<b>Pulse frequency</b>	2 kHz	<b>Relative humidity</b>	
<b>Output frequency for vector control</b>	0 ... 200 Hz	<b>Max. operation</b>	95 % RH, condensation not permitted
<b>Output frequency for V/f control</b>	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 1.35 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

SIEMENS

Data sheet for SINAMICS Power Module G120



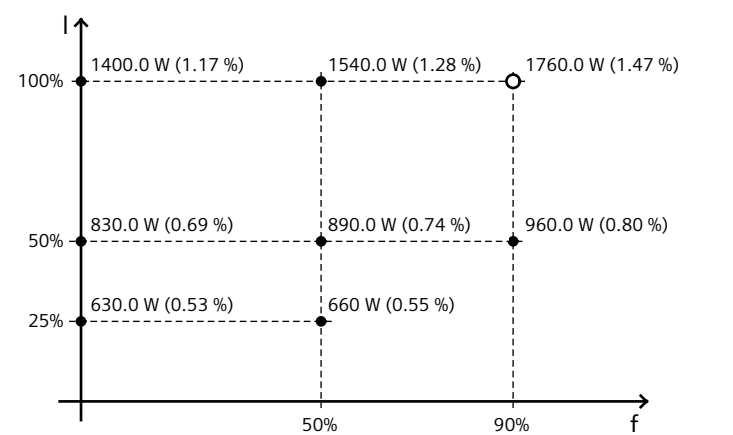
Figure similar

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Mechanical data		Connections	
Degree of protection	IP20	Line side	
Size	FSF	Version	M10 bolt
Net weight	64.00 kg	Conductor cross-section	35.00 ... 120.00 mm²
Width	305.0 mm	Motor end	
Height	708.0 mm	Version	M10 bolt
Depth	357.0 mm	Conductor cross-section	35.00 ... 120.00 mm²

Converter losses to EN 50598-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-0.36 %



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

Max. motor cable length	
Shielded	300 m
Unshielded	450 m

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