

MLFB-Ordering data

6SL3210-1RH31-0U00



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data		General tech. specifications	
Input		Power factor λ	0.90
Number of phases	3 AC	Offset factor $\cos \phi$	0.99
Line voltage	500 ... 690 V ± 10 %	Efficiency η	0.99
Line frequency	47 ... 63 Hz	Sound pressure level (1m)	68 dB
Rated current (LO)	97.00 A	Power loss	1.75 kW
Rated current (HO)	85.00 A	Ambient conditions	
Output		Cooling	Internal air cooling
Number of phases	3 AC	Cooling air requirement	0.153 m ³ /s
Rated voltage	690 V	Installation altitude	1000 m
Rated power (LO)	90.00 kW / 100.00 hp	Ambient temperature	
Rated power (HO)	75.00 kW / 75.00 hp	Operation LO	-20 ... 40 °C (-4 ... 104 °F)
Rated current (LO)	100.00 A	Operation HO	-20 ... 50 °C (-4 ... 122 °F)
Rated current (HO)	80.00 A	Transport	-40 ... 70 °C (-40 ... 158 °F)
Max. output current	135.00 A	Storage	-40 ... 70 °C (-40 ... 158 °F)
Pulse frequency	2 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 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

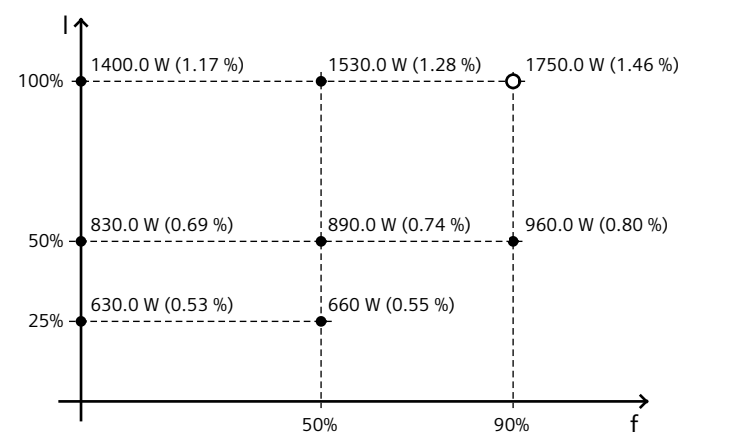


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6SL3210-1RH31-0UL0

Mechanical data		Connections	
Degree of protection	IP20	Line side	
Size	FSF	Version	M10 bolt
Net weight	60.00 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%)	-0.35 %



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, SEMI F47
CE marking	Low-voltage directive 2006/95/EC