



Figure similar

MLFB-Ordering data

6SL3210-1PH23-5AL0

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 $\pm 10\%$	Efficiency η	0.98
Line frequency	47 ... 63 Hz	Sound pressure level (1m)	72 dB
Rated current (LO)	33.00 A	Power loss	0.73 kW
Rated current (HO)	28.00 A	Filter class (integrated)	Class A
Output		Ambient conditions	
Number of phases	3 AC	Cooling	Internal air cooling
Rated voltage	690 V	Cooling air requirement	0.055 m ³ /s (1.942 ft ³ /s)
Rated current (LO)	35.00 A	Installation altitude	1000 m (3280.84 ft)
Rated current (HO)	27.00 A	Ambient temperature	
Max. output current	54.00 A	Operation LO	-20 ... 40 °C (-4 ... 104 °F)
Rated power IEC 690V (LO)	30.00 kW	Operation HO	-20 ... 50 °C (-4 ... 122 °F)
Rated power NEC 600V (LO)	30.00 hp	Transport	-40 ... 70 °C (-40 ... 158 °F)
Rated power IEC 690V (HO)	22.00 kW	Storage	-40 ... 70 °C (-40 ... 158 °F)
Rated power NEC 600V (HO)	25.00 hp	Relative humidity	
Pulse frequency	2 kHz	Max. operation	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

MLFB-Ordering data

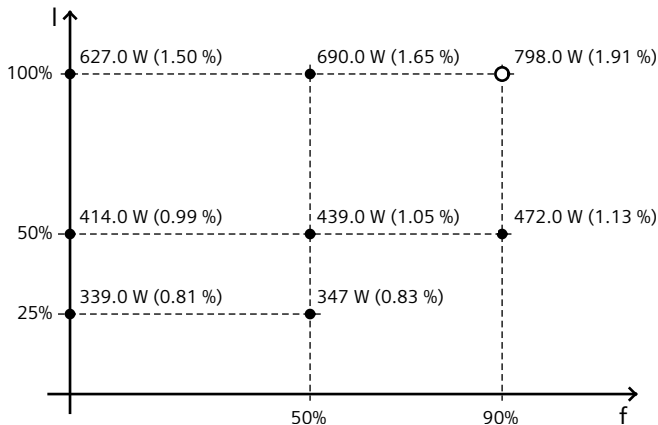
6SL3210-1PH23-5AL0

Mechanical data

Degree of protection	IP20 / UL open type
Size	FSD
Net weight	18.50 kg (40.79 lb)
Width	200 mm (7.87 in)
Height	472 mm (18.58 in)
Depth	237 mm (9.33 in)

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-60.78 %



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	10.00 ... 35.00 mm ² (AWG 8 ... AWG 2)

Motor end

Version	Screw-type terminals
Conductor cross-section	10.00 ... 35.00 mm ² (AWG 8 ... AWG 2)

DC link (for braking resistor)

Version	Screw-type terminals
Conductor cross-section	2.50 ... 16.00 mm ² (AWG 14 ... AWG 6)
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
------------	----------------------------------