



Figure similar

MLFB-Ordering data

6SL3210-1RE27-5UL0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data	General tech. specifications
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Input

Number of phases	3 AC
Line voltage	380 ... 480 V \pm 10 %
Line frequency	47 ... 63 Hz
Rated current (LO)	70.00 A
Rated current (HO)	62.00 A

Output

Number of phases	3 AC
Rated voltage	400 V
Rated current (LO)	75.00 A
Rated current (HO)	60.00 A
Max. output current	102.00 A
Rated power IEC 400V (LO)	37.00 kW
Rated power NEC 480V (LO)	40.00 hp
Rated power IEC 400V (HO)	30.00 kW
Rated power NEC 480V (HO)	30.00 hp
Pulse frequency	4 kHz
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 1.35 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

Power factor λ	0.95
Offset factor $\cos \varphi$	0.99
Efficiency η	0.98
Sound pressure level (1m)	72 dB
Power loss	1.12 kW
Filter class (integrated)	-

Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.055 m ³ /s (1.942 ft ³ /s)
Installation altitude	1000 m (3280.84 ft)

Ambient temperature

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)

Relative humidity

Max. operation	95 % RH, condensation not permitted
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Mechanical data

Degree of protection	IP20 / UL open type
Size	FSD
Net weight	18.30 kg (40.34 lb)
Width	200 mm (7.87 in)
Height	472 mm (18.58 in)
Depth	237 mm (9.33 in)

Connections

Line side

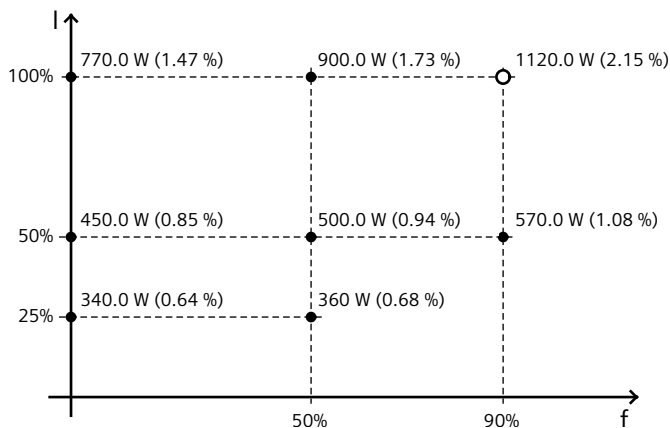
Version	screw-type terminal
Conductor cross-section	10.00 ... 35.00 mm ² (AWG 8 ... AWG 2)

Motor end

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

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-0.45 %



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

Max. motor cable length

Shielded	200 m (656.17 ft)
Unshielded	300 m (984.25 ft)

Standards

Compliance with standards	UL, cUL, CE, SEMI F47
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CE marking	Low-voltage directive 2006/95/EC
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