



Ordering data

6SL3224-0BE31-8AA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data		General tech. specifications	
Input		Power factor λ	0.85
Number of phases	3 AC	Offset factor $\cos \varphi$	0.95
Line voltage	380 ... 480 V ± 10 %	Efficiency η	0.97
Line frequency	47 ... 63 Hz	Sound pressure level (1m)	60 dB
Rated current with line reactor	47.00 A	Power loss	0.52 kW
Rated current without line reactor	53.00 A	Ambient conditions	
Output		Cooling	Internal air cooling
Number of phases	3 AC	Cooling air requirement	0.055 m³/s
Rated voltage	400 V	Installation altitude	1000 m
Rated power (LO)	22.00 kW	Ambient temperature	
Rated power (HO)	18.50 kW	Operation LO	0 ... 40 °C (32 ... 104 °F)
Rated current (LO)	45.00 A	Operation HO	0 ... 50 °C (32 ... 122 °F)
Rated current (HO)	38.00 A	Transport	-40 ... 70 °C (-40 ... 158 °F)
Max. output current	76.00 A	Storage	-25 ... 55 °C (-13 ... 131 °F)
Pulse frequency	4 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 × output current rating (i.e., 110 % overload) for 57 s with a cycle time of 300 s 1.5 × output current rating (i.e., 150 % overload) for 3 s with a cycle time of 300 s

High Overload (HO)

1.5 × output current rating (i.e., 150 % overload) for 57 s with a cycle time of 300 s 2 × output current rating (i.e., 200 % overload) for 3 s with a cycle time of 300 s

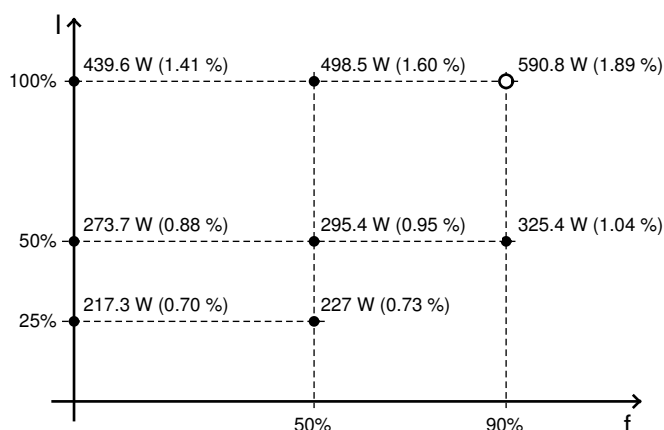
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Mechanical data		Connections	
Degree of protection	IP20	Line side	
Size	FSD	Version	M6 bolt
Net weight	16.00 kg	Conductor cross-section	10.00 ... 50.00 mm ²
Width	275.0 mm	Motor end	
Height	512.0 mm	Version	M6 bolt
Depth	204.0 mm	Conductor cross-section	10.00 ... 50.00 mm ²
Converter losses to EN 50598-2		DC link (for braking resistor)	

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-62.12 %



The percentage values indicate the losses with reference 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.

Conductor cross-section	10.00 ... 50.00 mm ²
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Max. motor cable length

Shielded	50 m
Unshielded	100 m

Standards

Compliance with standards	UL, cUL, CE, C-Tick, SEMI F47
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CE marking	According to low-voltage directive 2006/95/EC
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