



Ordering data

6SL3224-0BE31-5UA0

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

Rated data

Input

Number of phases	3 AC
Line voltage	380 ... 480 V $\pm 10\%$
Line frequency	47 ... 63 Hz
Rated current with line reactor	40.00 A
Rated current without line reactor	46.00 A

Output

Number of phases	3 AC
Rated voltage	400 V
Rated power (LO)	18.50 kW
Rated power (HO)	15.00 kW
Rated current (LO)	38.00 A
Rated current (HO)	32.00 A
Max. output current	64.00 A
Pulse frequency	4 kHz
Output frequency for vector control	0 ... 200 Hz
Output frequency for V/f control	0 ... 550 Hz

General tech. specifications

Power factor λ	0.85
Offset factor $\cos \varphi$	0.95
Efficiency η	0.97
Sound pressure level (1m)	60 dB
Power loss	0.42 kW

Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.055 m ³ /s
Installation altitude	1000 m
Ambient temperature	
Operation LO	0 ... 40 °C (32 ... 104 °F)
Operation HO	0 ... 50 °C (32 ... 122 °F)
Transport	-40 ... 70 °C (-40 ... 158 °F)
Storage	-25 ... 55 °C (-13 ... 131 °F)

Relative humidity

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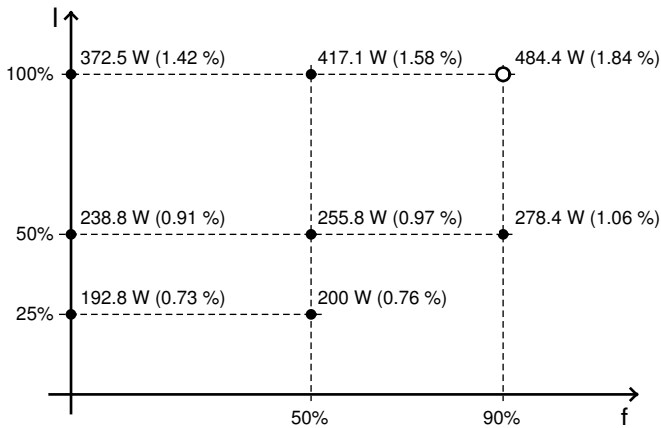
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Mechanical data

Degree of protection	IP20
Size	FSD
Net weight	13.00 kg
Width	275.0 mm
Height	419.0 mm
Depth	204.0 mm

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-63.71 %



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

Connections

Line side

Version	M6 bolt
Conductor cross-section	10.00 ... 50.00 mm ²

Motor end

Version	M6 bolt
Conductor cross-section	10.00 ... 50.00 mm ²

DC link (for braking resistor)

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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