



Figure similar

MLFB-Ordering data

6SL3210-1NE27-5AL0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

| Rated data | General tech. specifications |
|------------|------------------------------|
|------------|------------------------------|

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) | 56.00 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 | 90.00 A |
| Rated power IEC 400V (LO) | 37.00 kW |
| Rated power NEC 480V (LO) | 50.00 hp |
| Rated power IEC 400V (HO) | 30.00 kW |
| Rated power NEC 480V (HO) | 40.00 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 1.5 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

| | |
|------------------------------|---------|
| Power factor λ | 0.90 |
| Offset factor $\cos \varphi$ | 0.95 |
| Efficiency η | 0.97 |
| Sound pressure level (1m) | 60 dB |
| Power loss | 0.99 kW |
| Filter class (integrated) | Class A |

Ambient conditions

| | |
|----------------------------|--|
| Cooling | Internal air cooling |
| Cooling air requirement | 0.080 m ³ /s (2.825 ft ³ /s) |
| Installation altitude | 1000 m (3280.84 ft) |
| Ambient temperature | |
| Operation LO | 0 ... 40 °C (32 ... 104 °F) |
| Operation HO | 0 ... 50 °C (32 ... 122 °F) |
| Transport | -25 ... 55 °C (-13 ... 131 °F) |
| Storage | -25 ... 55 °C (-13 ... 131 °F) |

Relative humidity

| | |
|----------------|-------------------------------------|
| Max. operation | 95 % RH, condensation not permitted |
|----------------|-------------------------------------|



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Mechanical data

| | |
|----------------------|---------------------|
| Degree of protection | IP20 / UL open type |
| Size | FSE |
| Net weight | 22.00 kg (48.50 lb) |
| Width | 275 mm (10.83 in) |
| Height | 635 mm (25.00 in) |
| Depth | 204 mm (8.03 in) |

Connections

Line side

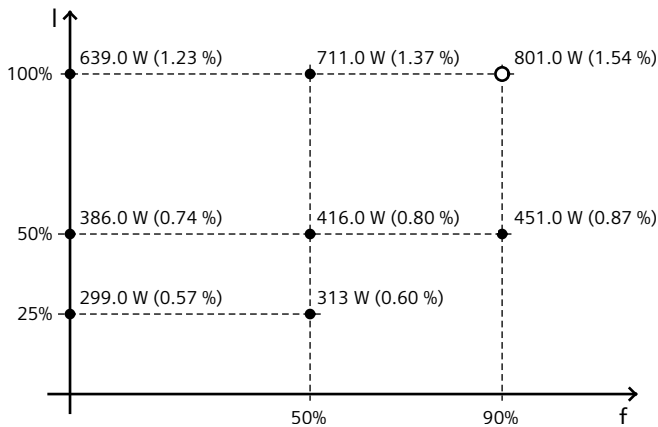
| | |
|-------------------------|---|
| Version | M6 bolt |
| Conductor cross-section | 25.00 ... 50.00 mm ² (AWG 4 ... AWG 1) |

Motor end

| | |
|-------------------------|---|
| Version | M6 bolt |
| Conductor cross-section | 25.00 ... 50.00 mm ² (AWG 4 ... AWG 1) |

Converter losses to EN 50598-2*

| | |
|--|----------|
| Efficiency class | IE2 |
| Comparison with the reference converter (90% / 100%) | -67.85 % |



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 | 25 m (82.02 ft) |
| Unshielded | 100 m (328.08 ft) |

Standards

| | |
|---------------------------|------------------|
| Compliance with standards | CE, C-Tick (RCM) |
|---------------------------|------------------|

| | |
|------------|----------------------------------|
| CE marking | Low-voltage directive 2006/95/EC |
|------------|----------------------------------|