



Figure similar

MLFB-Ordering data

6SL3210-1PE21-8UL0

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

| Rated data | | General tech. specifications | |
|-------------------------------------|--------------------------|---|-------------------------------------|
| Input | | Power factor λ | 0.85 |
| Number of phases | 3 AC | Offset factor $\cos \phi$ | 0.95 |
| Line voltage | 380 ... 480 V $\pm 10\%$ | Efficiency η | 0.97 |
| Line frequency | 47 ... 63 Hz | Sound pressure level (1m) | 72 dB |
| Rated current (LO) | 22.20 A | Power loss | 0.20 kW |
| Rated current (HO) | 19.80 A | Ambient conditions | |
| Output | | Cooling | Internal air cooling |
| Number of phases | 3 AC | Cooling air requirement | 0.009 m ³ /s |
| Rated voltage | 400 V | Installation altitude | 1000 m |
| Rated power (LO) | 7.50 kW / 10.00 hp | Ambient temperature | |
| Rated power (HO) | 5.50 kW / 7.50 hp | Operation LO | -5 ... 40 °C (23 ... 104 °F) |
| Rated current (LO) | 18.00 A | Operation HO | -5 ... 50 °C (23 ... 122 °F) |
| Rated current (HO) | 13.20 A | Transport | -40 ... 70 °C (-40 ... 158 °F) |
| Max. output current | 27.00 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 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

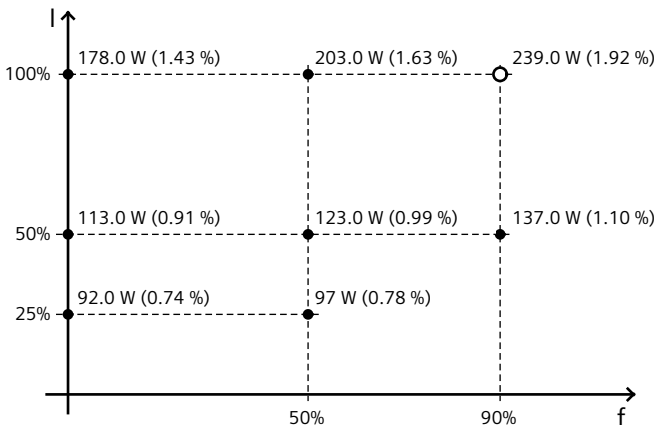
6SL3210-1PE21-8UL0

Mechanical data

| | |
|----------------------|----------|
| Degree of protection | IP20 |
| Size | FSB |
| Net weight | 3.00 kg |
| Width | 100.0 mm |
| Height | 292.0 mm |
| Depth | 165.0 mm |

Converter losses to EN 50598-2*

| | |
|--|----------|
| Efficiency class | IE2 |
| Comparison with the reference converter (90% / 100%) | -67.12 % |



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 | Plug-in screw-type terminals |
| Conductor cross-section | 1.50 ... 6.00 mm ² |

Motor end

| | |
|-------------------------|-------------------------------|
| Version | Plug-in screw terminals |
| Conductor cross-section | 1.50 ... 6.00 mm ² |

Max. motor cable length

| | |
|------------|-------|
| Shielded | 50 m |
| Unshielded | 100 m |

Standards

| | |
|---------------------------|-------------------------------------|
| Compliance with standards | UL, cUL, CE, C-Tick (RCM), SEMI F47 |
|---------------------------|-------------------------------------|

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