



Figure similar

MLFB-Ordering data

6SL3210-1PH31-2UL0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

| Rated data | | General tech. specifications | |
|-------------------------------------|--------------------------|--|--|
| Input | | Power factor λ | 0.90 |
| Number of phases | 3 AC | Offset factor $\cos \varphi$ | 0.99 |
| Line voltage | 500 ... 690 V $\pm 10\%$ | Efficiency η | 0.99 |
| Line frequency | 47 ... 63 Hz | Sound pressure level (1m) | 68 dB |
| Rated current (LO) | 111.00 A | Power loss | 1.82 kW |
| Rated current (HO) | 106.00 A | Ambient conditions | |
| Output | | Cooling | Internal air cooling |
| Number of phases | 3 AC | Cooling air requirement | 0.153 m ³ /s (5.403 ft ³ /s) |
| Rated voltage | 690 V | Installation altitude | 1000 m (3280.84 ft) |
| Rated current (LO) | 115.00 A | Ambient temperature | |
| Rated current (HO) | 100.00 A | Operation LO | -20 ... 40 °C (-4 ... 104 °F) |
| Max. output current | 200.00 A | Operation HO | -20 ... 50 °C (-4 ... 122 °F) |
| Rated power IEC 690V (LO) | 110.00 kW | Transport | -40 ... 70 °C (-40 ... 158 °F) |
| Rated power NEC 600V (LO) | 100.00 hp | Storage | -40 ... 70 °C (-40 ... 158 °F) |
| Rated power IEC 690V (HO) | 90.00 kW | Relative humidity | |
| Rated power NEC 600V (HO) | 100.00 hp | Max. operation | 95 % RH, condensation not permitted |
| Pulse frequency | 2 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



Figure similar

MLFB-Ordering data

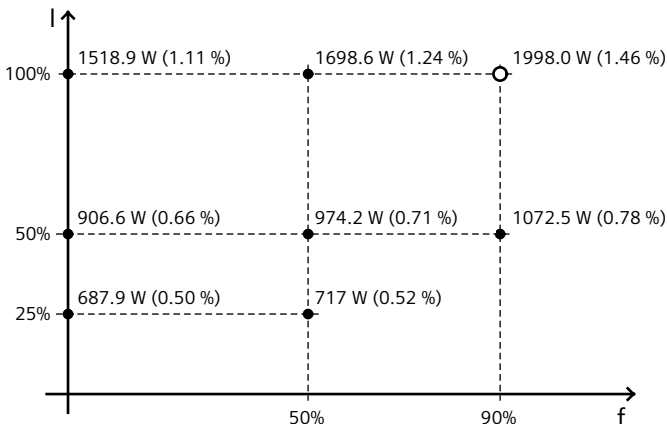
6SL3210-1PH31-2UL0

Mechanical data

| | |
|----------------------|----------------------|
| Degree of protection | IP20 / UL open type |
| Size | FSF |
| Net weight | 60.00 kg (132.28 lb) |
| Width | 305 mm (12.01 in) |
| Height | 708 mm (27.87 in) |
| Depth | 357 mm (14.06 in) |

Converter losses to EN 50598-2*

| | |
|--|---------|
| Efficiency class | IE2 |
| Comparison with the reference converter (90% / 100%) | -0.36 % |



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

Connections

Line side

| | |
|-------------------------|---|
| Version | M10 bolt |
| Conductor cross-section | 35.00 ... 120.00 mm ² (AWG 2 ... AWG -3) |

Motor end

| | |
|-------------------------|---|
| Version | M10 bolt |
| Conductor cross-section | 35.00 ... 120.00 mm ² (AWG 2 ... AWG -3) |

DC link (for braking resistor)

| | |
|-------------------------|--|
| Version | Screw-type terminals |
| Conductor cross-section | 25.00 ... 70.00 mm ² (AWG 4 ... AWG -1) |
| Cable length | 10 m (32.81 ft) |
| PE connection | M10 screw studs |

Max. motor cable length

| | |
|------------|--------------------|
| Shielded | 300 m (984.25 ft) |
| Unshielded | 450 m (1476.38 ft) |

Standards

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

CE marking Low-voltage directive 2006/95/EC