



Figure similar

### MLFB-Ordering data

6SL3210-1PE11-8UL1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

### Rated data

#### Input

|                    |                          |
|--------------------|--------------------------|
| Number of phases   | 3 / 3 AC                 |
| Line voltage       | 380 ... 480 V $\pm$ 10 % |
| Line frequency     | 47 ... 63 Hz             |
| Rated current (LO) | 2.30 A                   |
| Rated current (HO) | 2.00 A                   |

#### Output

|                                     |              |
|-------------------------------------|--------------|
| Number of phases                    | 3 AC         |
| Rated voltage                       | 400 V        |
| Rated current (LO)                  | 1.70 A       |
| Rated current (HO)                  | 1.30 A       |
| Max. output current                 | 2.60 A       |
| Rated power IEC 400V (LO)           | 0.55 kW      |
| Rated power NEC 480V (LO)           | 0.75 hp      |
| Rated power IEC 400V (HO)           | 0.37 kW      |
| Rated power NEC 480V (HO)           | 0.50 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

### General tech. specifications

|                              |         |
|------------------------------|---------|
| Power factor $\lambda$       | 0.85    |
| Offset factor $\cos \varphi$ | 0.95    |
| Efficiency $\eta$            | 0.96    |
| Sound pressure level (1m)    | 72 dB   |
| Power loss                   | 0.04 kW |

### Ambient conditions

|                         |                         |
|-------------------------|-------------------------|
| Cooling                 | Internal air cooling    |
| Cooling air requirement | 0.005 m <sup>3</sup> /s |
| Installation altitude   | 1000 m                  |

### Ambient temperature

|              |                                |
|--------------|--------------------------------|
| Operation LO | -5 ... 40 °C (23 ... 104 °F)   |
| Operation HO | -5 ... 50 °C (23 ... 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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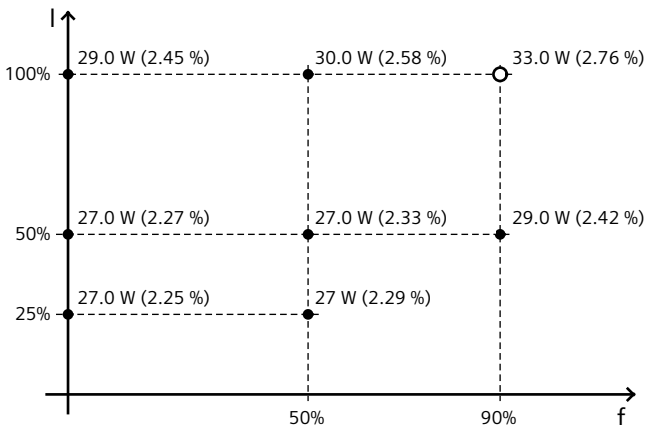
### Mechanical data

|                      |          |
|----------------------|----------|
| Degree of protection | IP20     |
| Size                 | FSA      |
| Net weight           | 1.40 kg  |
| Width                | 73.0 mm  |
| Height               | 196.0 mm |
| Depth                | 165.0 mm |

### Converter losses to EN 50598-2\*

|                  |     |
|------------------|-----|
| Efficiency class | IE2 |
|------------------|-----|

Comparison with the reference converter (90% / 100%) -79.11 %



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                 | Plug-in screw terminals       |
| Conductor cross-section | 1.00 ... 2.50 mm <sup>2</sup> |

#### Motor end

|                         |                               |
|-------------------------|-------------------------------|
| Version                 | Plug-in screw terminals       |
| Conductor cross-section | 1.00 ... 2.50 mm <sup>2</sup> |

### 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 |
|------------|----------------------------------|