



Figure similar

### MLFB-Ordering data

6SL3223-0DE31-8BA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

### Rated data

#### Input

|                    |                          |
|--------------------|--------------------------|
| Number of phases   | 3 AC                     |
| Line voltage       | 380 ... 480 V $\pm 10\%$ |
| Line frequency     | 47 ... 63 Hz             |
| Rated current (LO) | 39.00 A                  |
| Rated current (HO) | 33.00 A                  |

#### Output

|                                     |              |
|-------------------------------------|--------------|
| Number of phases                    | 3 AC         |
| Rated voltage                       | 400 V        |
| Rated current (LO)                  | 38.00 A      |
| Rated current (HO)                  | 32.00 A      |
| Max. output current                 | 64.00 A      |
| Rated power IEC 400V (LO)           | 18.50 kW     |
| Rated power NEC 480V (LO)           | 25.00 hp     |
| Rated power IEC 400V (HO)           | 15.00 kW     |
| Rated power NEC 480V (HO)           | 20.00 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

### General tech. specifications

|                              |         |
|------------------------------|---------|
| Power factor $\lambda$       | 0.90    |
| Offset factor $\cos \varphi$ | 0.95    |
| Efficiency $\eta$            | 0.97    |
| Sound pressure level (1m)    | 56 dB   |
| Power loss                   | 0.52 kW |
| Filter class (integrated)    | Class B |

### Ambient conditions

|                            |  |
|----------------------------|--|
| Cooling                    | Internal air cooling                               |
| Cooling air requirement    | 0.039 m <sup>3</sup> /s (1.377 ft <sup>3</sup> /s) |
| Installation altitude      | 1000 m (3280.84 ft)                                |
| <b>Ambient temperature</b> |  |
| 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 |
|----------------|-------------------------------------|



Figure similar

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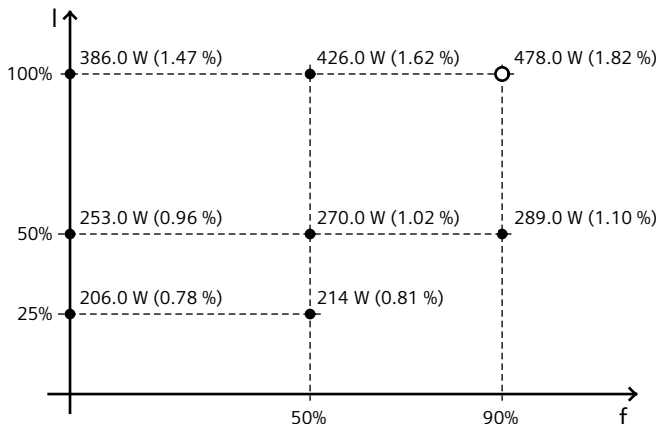
6SL3223-0DE31-8BA0

| Mechanical data      |                     |
|----------------------|---------------------|
| Degree of protection | IP55 / UL type 12   |
| Size                 | FSD                 |
| Net weight           | 31.00 kg (68.34 lb) |
| Width                | 320 mm (12.60 in)   |
| Height               | 640 mm (25.20 in)   |
| Depth                | 329 mm (12.95 in)   |

| Connections             |   |
|-------------------------|---|
| <b>Line side</b>        |   |
| Version                 | M6 bolt   |
| Conductor cross-section | 16.00 ... 35.00 mm <sup>2</sup> (AWG 6 ... AWG 2) |
| <b>Motor end</b>        |   |
| Version                 | M6 bolt   |
| Conductor cross-section | 16.00 ... 35.00 mm <sup>2</sup> (AWG 6 ... AWG 2) |

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

|  |          |
|--|----------|
| Efficiency class                                     | IE2      |
| Comparison with the reference converter (90% / 100%) | -63.96 % |



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 |