



Figure similar

### MLFB-Ordering data

6SL3210-1PH22-3UL0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

### Rated data

#### Input

|                    |                          |
|--------------------|--------------------------|
| Number of phases   | 3 AC                     |
| Line voltage       | 500 ... 690 V $\pm 10\%$ |
| Line frequency     | 47 ... 63 Hz             |
| Rated current (LO) | 22.00 A                  |
| Rated current (HO) | 20.00 A                  |

#### Output

|                                     |              |
|-------------------------------------|--------------|
| Number of phases                    | 3 AC         |
| Rated voltage                       | 690 V        |
| Rated current (LO)                  | 23.00 A      |
| Rated current (HO)                  | 19.00 A      |
| Max. output current                 | 38.00 A      |
| Rated power IEC 690V (LO)           | 18.50 kW     |
| Rated power NEC 600V (LO)           | 20.00 hp     |
| Rated power IEC 690V (HO)           | 15.00 kW     |
| Rated power NEC 600V (HO)           | 15.00 hp     |
| 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

### General tech. specifications

|                              |         |
|------------------------------|---------|
| Power factor $\lambda$       | 0.90    |
| Offset factor $\cos \varphi$ | 0.99    |
| Efficiency $\eta$            | 0.98    |
| Sound pressure level (1m)    | 72 dB   |
| Power loss                   | 0.48 kW |
| Filter class (integrated)    | -       |

### Ambient conditions

|                         |  |
|-------------------------|--|
| Cooling                 | Internal air cooling                               |
| Cooling air requirement | 0.055 m <sup>3</sup> /s (1.942 ft <sup>3</sup> /s) |
| Installation altitude   | 1000 m (3280.84 ft)                                |

### Ambient temperature

|              |                                |
|--------------|--------------------------------|
| Operation LO | -20 ... 40 °C (-4 ... 104 °F)  |
| Operation HO | -20 ... 50 °C (-4 ... 122 °F)  |
| Transport    | -40 ... 70 °C (-40 ... 158 °F) |
| Storage      | -40 ... 70 °C (-40 ... 158 °F) |

### Relative humidity

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



Figure similar

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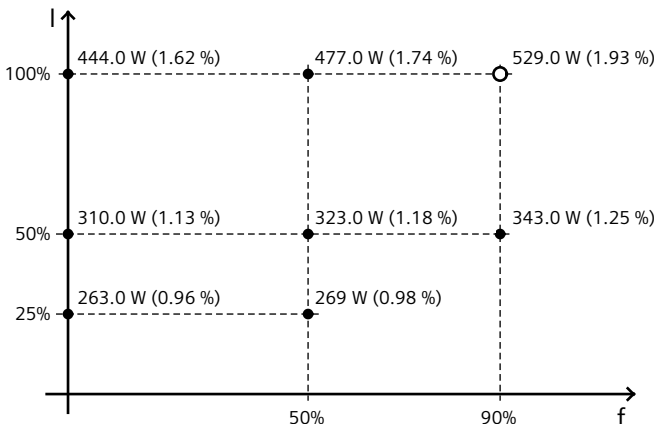
6SL3210-1PH22-3UL0

### Mechanical data

|                      |                     |
|----------------------|---------------------|
| Degree of protection | IP20 / UL open type |
| Size                 | FSD                 |
| Net weight           | 17.00 kg (37.48 lb) |
| Width                | 200 mm (7.87 in)    |
| Height               | 472 mm (18.58 in)   |
| Depth                | 237 mm (9.33 in)    |

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

|  |          |
|--|----------|
| Efficiency class                                     | IE2      |
| Comparison with the reference converter (90% / 100%) | -61.78 % |



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                 | screw-type terminal                               |
| Conductor cross-section | 10.00 ... 35.00 mm <sup>2</sup> (AWG 8 ... AWG 2) |

#### Motor end

|                         |   |
|-------------------------|---|
| Version                 | Screw-type terminals                              |
| Conductor cross-section | 10.00 ... 35.00 mm <sup>2</sup> (AWG 8 ... AWG 2) |

#### DC link (for braking resistor)

|                         |   |
|-------------------------|---|
| Version                 | Screw-type terminals                              |
| Conductor cross-section | 2.50 ... 16.00 mm <sup>2</sup> (AWG 14 ... AWG 6) |
| Cable length            | 10 m (32.81 ft)                                   |
| PE connection           | Screw-type terminals                              |

#### Max. motor cable length

|            |                   |
|------------|-------------------|
| Shielded   | 200 m (656.17 ft) |
| Unshielded | 300 m (984.25 ft) |

### Standards

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

CE marking Low-voltage directive 2006/95/EC