

Figure similar

### MLFB-Ordering data

6SL3220-2YE62-1CP0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data			General tech. specifications	
<b>Input</b>			<b>Power factor <math>\lambda</math></b>	0.75 ... 0.93
Number of phases	3 AC		<b>Offset factor <math>\cos \phi</math></b>	0.96
Line voltage	380 ... 480 V +10 % -10 %		<b>Efficiency <math>\eta</math></b>	0.98
Line frequency	47 ... 63 Hz		<b>Sound pressure level (1m)</b>	74 dB
Rated voltage	400V IEC	480V NEC	<b>Power loss</b>	10.418 kW
Rated current (LO)	850.00 A	687.00 A	<b>Filter class (integrated)</b>	RFI suppression filter for Category C3
Rated current (HO)	696.00 A	561.00 A	<b>EMC category (with accessories)</b>	Category C3
<b>Output</b>			<b>Ambient conditions</b>	
Number of phases	3 AC		<b>Standard board coating type</b>	Class 3C2, according to IEC 60721-3-3: 2002
Rated voltage	400V IEC	480V NEC	<b>Cooling</b>	Air cooling using an integrated fan
Rated power (LO)	450.00 kW	500.00 hp	<b>Cooling air requirement</b>	0.450 m <sup>3</sup> /s (15.892 ft <sup>3</sup> /s)
Rated power (HO)	355.00 kW	450.00 hp	<b>Installation altitude</b>	1000 m (3280.84 ft)
Rated current (LO)	820.00 A	663.00 A	<b>Ambient temperature</b>	
Rated current (HO)	720.00 A	542.00 A	<b>Operation</b>	0 ... 45 °C (32 ... 113 °F)
Rated current (IN)	840.00 A		<b>Transport</b>	-40 ... 70 °C (-40 ... 158 °F)
Max. output current	1107.00 A		<b>Storage</b>	-25 ... 55 °C (-13 ... 131 °F)
Pulse frequency	4 kHz		<b>Relative humidity</b>	
Output frequency for vector control	0 ... 100 Hz		<b>Max. operation</b>	95 % At 40 °C (104 °F), condensation and icing not permissible
Output frequency for V/f control	0 ... 100 Hz			

### Overload capability

#### Low Overload (LO)

110% base load current IL for 60 s in a 300 s cycle time

#### High Overload (HO)

150% x base load current IH for 60 s within a 600 s cycle time

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### Mechanical data

Degree of protection	IP20 / UL open type
Size	FSJ
Net weight	236 kg (520.29 lb)
Width	801 mm (31.54 in)
Height	1621 mm (63.82 in)
Depth	393 mm (15.47 in)

### Inputs / outputs

#### Standard digital inputs

Number	6
Switching level: 0→1	11 V
Switching level: 1→0	5 V
Max. inrush current	15 mA

#### Fail-safe digital inputs

Number	1
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#### Digital outputs

Number as relay changeover contact	2
Output (resistive load)	DC 30 V, 5.0 A
Number as transistor	0

#### Analog / digital inputs

Number	2 (Differential input)
Resolution	10 bit

#### Switching threshold as digital input

0→1	4 V
1→0	1.6 V

#### Analog outputs

Number	1 (Non-isolated output)
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#### PTC/ KTY interface

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy ±5 °C

### Closed-loop control techniques

V/f linear / square-law / parameterizable	Yes
V/f with flux current control (FCC)	Yes
V/f ECO linear / square-law	Yes
Sensorless vector control	Yes
Vector control, with sensor	No
Encoderless torque control	Yes
Torque control, with encoder	No

### Communication

Communication	PROFIBUS DP
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### Connections

#### Signal cable

Conductor cross-section	0.15 ... 1.50 mm <sup>2</sup> (AWG 24 ... AWG 16)
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#### Line side

Version	M12 screw
Conductor cross-section	240.00 mm <sup>2</sup> (MCM 4 x 500 ... MCM 6 x 500)

#### Motor end

Version	M12 screw
Conductor cross-section	240.00 mm <sup>2</sup> (MCM 4 x 500 ... MCM 8 x 500)

#### DC link (for braking resistor)

PE connection	M12 screw
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#### Max. motor cable length

Shielded	150 m (492.13 ft)
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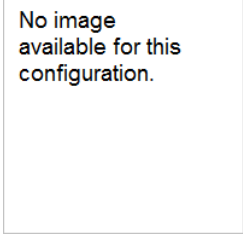


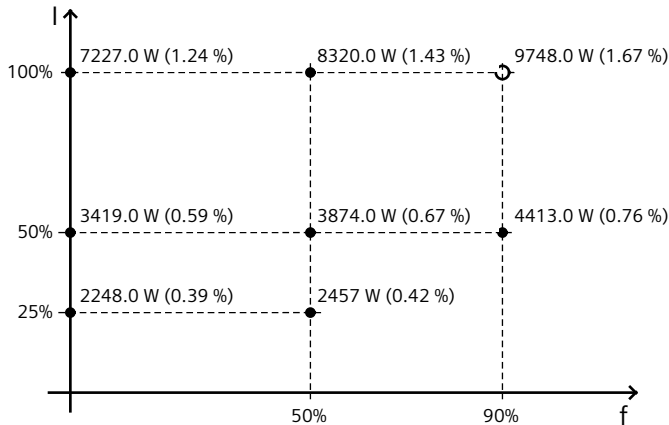
Figure similar

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

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-41.10 %



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

### Standards

**Compliance with standards** UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH

**CE marking**

EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC

### Operator panel: Basic Operator Panel (BOP-2)

#### Screen

**Display design** LCD, monochrome

#### Ambient conditions

##### Ambient temperature during

**Operation** 0 ... 50 °C (32 ... 122 °F)

**Storage** -40 ... 70 °C (-40 ... 158 °F)

**Transport** -40 ... 70 °C (-40 ... 158 °F)

#### Mechanical data

**Degree of protection** IP55 / UL type 12

**Net weight** 0.14 kg (0.31 lb)

**Width** 70.0 mm (2.76 in)

**Height** 106.85 mm (4.21 in)

**Depth** 19.60 mm (0.77 in)

##### Relative humidity at 25°C during

**Max. operation** 95 %

### Approvals

**Certificate of suitability** CE, cULus, EAC, KCC, RCM

### I/O Extension Module

Technical specifications for the I/O Extension Modul are available via direct input (MLFB 6SL3255-0BE00-0AA0).