

### MLFB-Ordering data

6SL3220-3YE26-0AF0



Figure similar

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>	0.70 ... 0.85
Number of phases	3 AC		<b>Offset factor <math>\cos \varphi</math></b>	0.96
Line voltage	380 ... 480 V +10 % -20 %		<b>Efficiency <math>\eta</math></b>	0.98
Line frequency	47 ... 63 Hz		<b>Sound pressure level (1m)</b>	67 dB
Rated voltage	400V IEC	480V NEC	<b>Power loss</b>	0.316 kW
Rated current (LO)	24.50 A	24.50 A	<b>Filter class (integrated)</b>	RFI suppression filter for Category C2
Rated current (HO)	16.96 A	18.25 A	<b>Ambient conditions</b>	
<b>Output</b>			<b>Cooling</b>	Air cooling using an integrated fan
Number of phases	3 AC		<b>Cooling air requirement</b>	0.018 m³/s (0.653 ft³/s)
Rated voltage	400V IEC	480V NEC	<b>Installation altitude</b>	1000 m (3280.84 ft)
Rated power (LO)	11.00 kW	15.00 hp	<b>Ambient temperature</b>	
Rated power (HO)	7.50 kW	10.00 hp	<b>Operation</b>	-20 ... 45 °C (-4 ... 113 °F)
Rated current (LO)	26.00 A	21.00 A	<b>Transport</b>	-40 ... 70 °C (-40 ... 158 °F)
Rated current (HO)	18.00 A	14.00 A	<b>Storage</b>	-25 ... 55 °C (-13 ... 131 °F)
Rated current (IN)	27.00 A		<b>Relative humidity</b>	
Max. output current	35.00 A		<b>Max. operation</b>	95 % At 40 °C (104 °F), condensation and icing not permissible
Pulse frequency	4 kHz		<b>Closed-loop control techniques</b>	
Output frequency for vector control	0 ... 200 Hz		<b>V/f linear / square-law / parameterizable</b>	Yes
Output frequency for V/f control	0 ... 550 Hz		<b>V/f with flux current control (FCC)</b>	Yes
<b>Overload capability</b>			<b>V/f ECO linear / square-law</b>	Yes
<b>Low Overload (LO)</b>			<b>Sensorless vector control</b>	Yes
110% base load current IL for 60 s in a 300 s cycle time			<b>Vector control, with sensor</b>	No
<b>High Overload (HO)</b>			<b>Encoderless torque control</b>	Yes
150% x base load current IH for 60 s within a 600 s cycle time			<b>Torque control, with encoder</b>	No



Figure similar

### Mechanical data

Degree of protection	IP20 / UL open type
Size	FSC
Net weight	8 kg (16.89 lb)
Width	140 mm (5.51 in)
Height	295 mm (11.61 in)
Depth	209 mm (8.23 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
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### Communication

Communication	PROFINET / EtherNet/IP
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### Connections

#### Signal cable

Conductor cross-section	0.15 ... 1.50 mm² (AWG 24 ... AWG 16)
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#### Line side

Version	screw-type terminal
Conductor cross-section	6.00 ... 16.00 mm² (AWG 10 ... AWG 6)

#### Motor end

Version	Screw-type terminals
Conductor cross-section	6.00 ... 16.00 mm² (AWG 10 ... AWG 6)

#### DC link (for braking resistor)

PE connection	On housing with M4 screw
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#### 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), EAC, KCC, SEMI F47, REACH
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CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC
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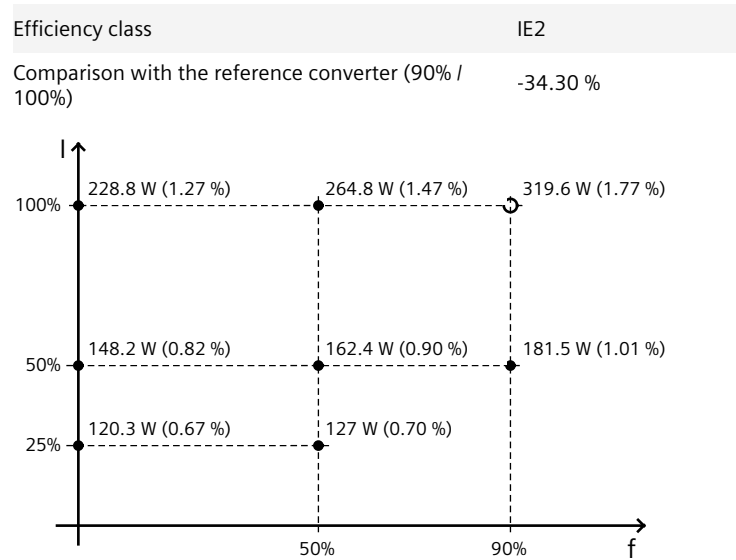


Figure similar

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Converter losses to EN 50598-2\*



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

Operator panel: Intelligent Operator Panel (IOP-2)

Screen	Ambient conditions																
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