



Figure similar

MLFB-Ordering data

6SL3210-1KE23-8AP0

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 +10 % -20 %
Line frequency	47 ... 63 Hz
Rated current (LO)	48.20 A
Rated current (HO)	45.20 A

Output

Number of phases	3 AC
Rated voltage	400 V
Rated power (LO)	18.50 kW
Rated power (HO)	15.00 kW
Rated current (IN)	38.00 A
Rated current (LO)	37.00 A
Rated current (HO)	31.00 A
Max. output current	62.00 A
Pulse frequency	4.000 kHz
Output frequency for vector control	0 ... 240 Hz
Output frequency for V/f control	0 ... 550 Hz

Overload capability

Low Overload (LO)

150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time

High Overload (HO)

200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time

General tech. specifications

Power factor λ	0.70 ... 0.85
Offset factor $\cos \phi$	0.95
Efficiency η	0.97
Sound pressure level (1m)	66 dB
Power loss	0.50 kW

Ambient conditions

Cooling	Air cooling using an integrated fan
Cooling air requirement	0.018 m ³ /s
Installation altitude	1000 m

Ambient temperature

Operation	-10 ... 40 °C (14 ... 104 °F)
Transport	-40 ... 70 °C (-40 ... 158 °F)
Storage	-40 ... 70 °C (-40 ... 158 °F)

Relative humidity

Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
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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	No
Torque control, with encoder	No

Communication

Communication	PROFIBUS DP
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Mechanical data	
Degree of protection	IP20 / UL open type
Size	FSC
Net weight	4.40 kg
Width	140.0 mm
Height	295.0 mm
Depth	203.0 mm

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	1
Output (resistive load)	DC 30 V, 0.5 A
Number as transistor	1
Output (resistive load)	DC 30 V, 0.5 A

Analog / digital inputs

Number	1 (Differential input)
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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

Standards

Compliance with standards	UL, cUL, CE, C-Tick (RCM)
CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC

Connections

Signal cable

Conductor cross-section	0.15 ... 1.50 mm ² (24 ... 16 AWG)
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Line side

Version	Plug-in screw terminals
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Conductor cross-section	6.00 ... 16.00 mm ² (10 ... 6 AWG)
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Motor end

Version	Plug-in screw terminals
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Conductor cross-section	6.00 ... 16.00 mm ² (10 ... 6 AWG)
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DC link (for braking resistor)

Version	Plug-in screw terminals
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Conductor cross-section	6.00 ... 16.00 mm ² (10 ... 6 AWG)
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PE connection	On housing with M4 screw
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Max. motor cable length

Shielded	50 m
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Unshielded	100 m
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