



Figure similar

MLFB-Ordering data

6SL3210-1KE32-4UF1

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data		General tech. specifications	
Input		Power factor λ	0.90 ... 0.95
Number of phases	3 AC	Offset factor $\cos \phi$	0.99
Line voltage	380 ... 480 V +10 % -20 %	Efficiency η	0.99
Line frequency	47 ... 63 Hz	Sound pressure level (1m)	68 dB
Rated current (LO)	221.00 A	Power loss	2.33 kW
Rated current (HO)	207.00 A	Filter class (integrated)	Unfiltered
Output		Ambient conditions	
Number of phases	3 AC	Cooling	Air cooling using an integrated fan
Rated voltage	400 V	Cooling air requirement	0.153 m ³ /s (5.403 ft ³ /s)
Rated power IEC 400V (LO)	132.00 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (LO)	150.00 hp	Ambient temperature	
Rated power IEC 400V (HO)	110.00 kW	Operation	-20 ... 40 °C (-4 ... 104 °F)
Rated power NEC 480V (HO)	125.00 hp	Transport	-40 ... 70 °C (-40 ... 158 °F)
Rated current (LO)	237.00 A	Storage	-40 ... 70 °C (-40 ... 158 °F)
Rated current (HO)	201.00 A	Relative humidity	
Rated current (IN)	237.00 A	Max. operation	95 % RH, condensation not permitted
Max. output current	402.00 A	Closed-loop control techniques	
Pulse frequency	2 kHz	V/f linear / square-law / parameterizable	Yes
Output frequency for vector control	0 ... 240 Hz	V/f with flux current control (FCC)	Yes
Output frequency for V/f control	0 ... 550 Hz	V/f ECO linear / square-law	Yes
Overload capability		Sensorless vector control	Yes
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	Vector control, with sensor	No
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	Encoderless torque control	No
		Torque control, with encoder	No



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Mechanical data

Degree of protection	IP20 / UL open type
Size	FSF
Net weight	61.50 kg (135.58 lb)
Width	305 mm (12.01 in)
Height	708 mm (27.87 in)
Depth	357 mm (14.06 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	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)
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

Communication

Communication	PROFINET, EtherNet/IP
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Connections

Signal cable

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

Version	screw-type terminal
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Conductor cross-section	35.00 ... 120.00 mm ² (AWG 2 ... AWG -3)
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Motor end

Version	Screw-type terminals
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Conductor cross-section	35.00 ... 120.00 mm ² (AWG 2 ... AWG -3)
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DC link (for braking resistor)

Version	Screw-type terminals
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Conductor cross-section	35.00 ... 120.00 mm ² (AWG 2 ... AWG -3)
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Line length, max.	10 m (32.81 ft)
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PE connection	Screw-type terminals
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Max. motor cable length

Shielded	300 m (984.25 ft)
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Unshielded	450 m (1476.38 ft)
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Standards

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

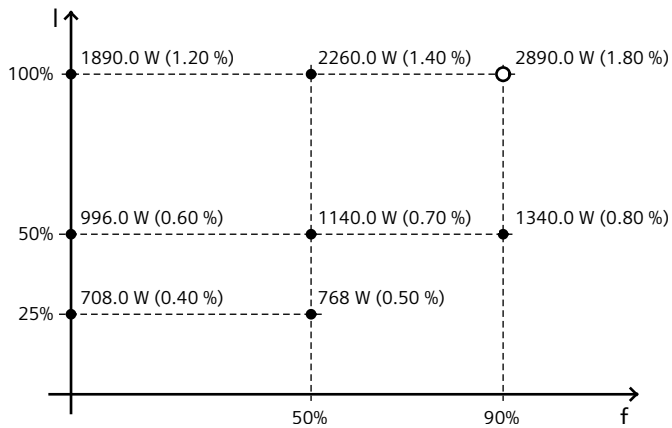
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Figure similar

Converter losses to IEC61800-9-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	43.10 %



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 IEC61800-9-2) 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