



Figure similar

MLFB-Ordering data

6SL3210-1KE32-1UF1

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 $\cos \varphi$	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)	187.00 A	Power loss	1.82 kW
Rated current (HO)	169.00 A	Ambient conditions	
Output		Cooling	Air cooling using an integrated fan
Number of phases	3 AC	Cooling air requirement	0.153 m³/s (5.403 ft³/s)
Rated voltage	400 V	Installation altitude	1000 m (3280.84 ft)
Rated power IEC 400V (LO)	110.00 kW	Ambient temperature	
Rated power NEC 480V (LO)	125.00 hp	Operation	-20 ... 40 °C (-4 ... 104 °F)
Rated power IEC 400V (HO)	90.00 kW	Transport	-40 ... 70 °C (-40 ... 158 °F)
Rated power NEC 480V (HO)	100.00 hp	Storage	-40 ... 70 °C (-40 ... 158 °F)
Rated current (IN)	201.00 A	Relative humidity	
Rated current (LO)	201.00 A	Max. operation	95 % RH, condensation not permitted
Rated current (HO)	164.00 A	Closed-loop control techniques	
Max. output current	328.00 A	V/f linear / square-law / parameterizable	Yes
Pulse frequency	2.000 kHz	V/f with flux current control (FCC)	Yes
Output frequency for vector control	0 ... 240 Hz	V/f ECO linear / square-law	Yes
Output frequency for V/f control	0 ... 550 Hz	Sensorless vector control	Yes
Overload capability		Vector control, with sensor	No
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		
		Encoderless torque control	No
		Torque control, with encoder	No
		Communication	
		Communication	PROFINET / EtherNet/IP



Figure similar

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)
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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
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Connections	
Signal cable	
Conductor cross-section	0.15 ... 1.50 mm² (AWG 24 ... AWG 16)
Line side	
Version	screw-type terminal
Conductor cross-section	35.00 ... 120.00 mm² (AWG 2 ... AWG -3)
Motor end	
Version	Screw-type terminals
Conductor cross-section	35.00 ... 120.00 mm² (AWG 2 ... AWG -3)
DC link (for braking resistor)	
Version	Screw-type terminals
Conductor cross-section	35.00 ... 120.00 mm² (AWG 2 ... AWG -3)
Line length, max.	10 m (32.81 ft)
PE connection	Screw-type terminals
Max. motor cable length	
Shielded	300 m (984.25 ft)
Unshielded	450 m (1476.38 ft)

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



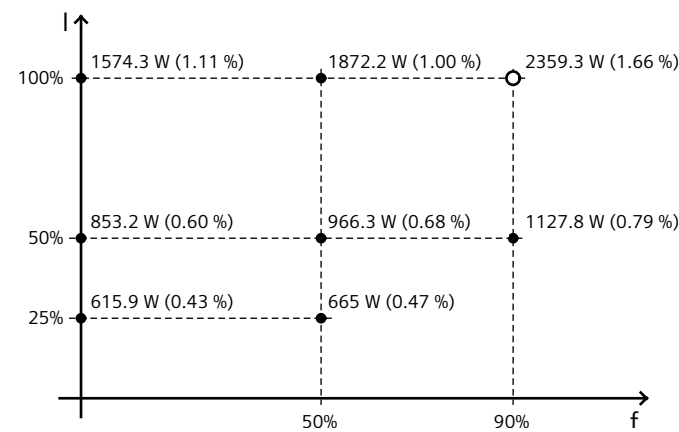
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Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-0.41 %



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