

MLFB-Ordering data

6SL3210-1KE32-1UF1



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)	187.00 A		
Rated current (HO)	169.00 A		
Output			
Number of phases	3 AC		
Rated voltage	400 V		
Rated power IEC 400V (LO)	110.00 kW		
Rated power NEC 480V (LO)	125.00 hp		
Rated power IEC 400V (HO)	90.00 kW		
Rated power NEC 480V (HO)	100.00 hp		
Rated current (IN)	201.00 A		
Rated current (LO)	201.00 A		
Rated current (HO)	164.00 A		
Max. output current	328.00 A		
Pulse frequency	2 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			
	0.00		
Power factor λ	0.90 0.95		
Offset factor cos φ	0.99		
Efficiency η	0.99		
Sound pressure level (1m)	68 dB		
Power loss	1.82 kW		
Filter class (integrated)	Unfiltered		

Ambient conditions		
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.153 m³/s (5.403 ft³/s)	
Installation altitude	1000 m (3280.84 ft)	
Ambient temperature		
Operation	-20 40 °C (-4 104 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-40 70 °C (-40 158 °F)	
Relative humidity		

Max. operation	95 % RH, condensation not permitted

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		





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			Figure similar
Mechanical	data	Com	munication
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP
Size	FSF	Co	nnections
Net weight	61.50 kg (135.58 lb)	Signal cable	
Width	305 mm (12.01 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
Height	708 mm (27.87 in)	Line side	
Depth	357 mm (14.06 in)	Version	screw-type terminal
Inputs / out	tputs	Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -3)
Standard digital inputs		Motor end	
Number	6	Version	Screw-type terminals
Switching level: 0→1	11 V	Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -3)
Switching level: 1→0	5 V	DC link (for braking resistor)	
Max. inrush current	15 mA	Version	Screw-type terminals
Fail-safe digital inputs		Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -3)
Number	1		· · · · · · · · · · · · · · · · · · ·
Digital outputs		Line length, max.	10 m (32.81 ft)
Number as relay changeover contact	1	PE connection Max. motor cable length	Screw-type terminals
Output (resistive load)	DC 30 V, 0.5 A	Shielded	300 m (984.25 ft)
Number as transistor	1	Unshielded	450 m (1476.38 ft)
Output (resistive load)	DC 30 V, 0.5 A	Standards	
Analog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)
Number	1 (Differential input)		
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC
Switching threshold as digital in	put		
0→1	4 V		
1→0	1.6 V		

Analog outputs

Number 1 (Non-isolated output)

PTC/ KTY interface

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\text{C}$



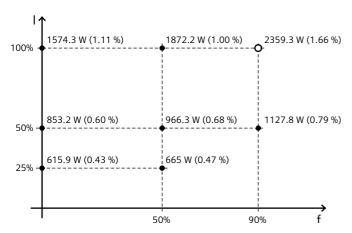
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Figure similar

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

