

MLFB-Ordering data

6SL3210-1KE28-4UF1



Client order no. :
Order no. :
Offer no. :

Remarks:

Item no. : Consignment no. : Project :

la
3 AC
380 480 V +10 % -20 %
47 63 Hz
76.00 A
69.00 A
3 AC
400 V
45.00 kW
50.00 hp
37.00 kW
40.00 hp
82.50 A
82.50 A
68.00 A
136.00 A
4 kHz
0 240 Hz
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	0.90 0.95		
Offset factor cos φ	0.99		
Efficiency η	0.98		
Sound pressure level (1m)	72 dB		
Dound prossure level (,	, = 45		
Power loss	1.01 kW		
Filter class (integrated)	Unfiltered		

Cooling	Air cooling using an integrated fan
Cooling air requirement	0.055 m³/s (1.942 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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Mechanical data		Com	munication
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP
Size	FSD	Connections	
Net weight	18.80 kg (41.45 lb)	Signal cable	
Width	200 mm (7.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 A
Height	472 mm (18.58 in)	Line side	
Depth	237 mm (9.33 in)	Version	screw-type terminal
Inputs / out	tputs	Conductor cross-section	10.00 35.00 mm² (AWG 8 A
tandard digital inputs		Motor end	
Number	6	Version	Screw-type terminals
Switching level: 0→1	11 V	Conductor cross-section	10.00 35.00 mm² (AWG 8 A
Switching level: 1→0	5 V	DC link (for braking resistor)	
Max. inrush current	15 mA	Version	Screw-type terminals
ail-safe digital inputs		Conductor cross-section	10.00 35.00 mm² (AWG 8 A
Number	1	Line length, max.	10 m (32.81 ft)
igital outputs		PE connection	Screw-type terminals
Number as relay changeover contact	1	Max. motor cable length	, , , , , , , , , , , , , , , , , , ,
Output (resistive load)	DC 30 V, 0.5 A	Shielded	200 m (656.17 ft)
Number as transistor	1	Unshielded	300 m (984.25 ft)
Output (resistive load)	DC 30 V, 0.5 A	S	tandards
nalog / 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 Directive 2006/95/EC
witching threshold as digital in	put		
0→1	4 V		
1→0	1.6 V		
analog outputs			
Number	1 (Non-isolated output)		
Rumper	i (Noti-isolated output)		

PTC/ KTY interface

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



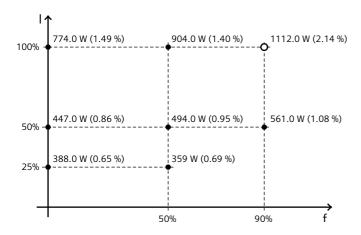
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Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-55.32 %



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