

#### MLFB-Ordering data

#### 6SL3210-1KE27-0UF1



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

Remarks:

Item no. : Consignment no. : Project :

**Power loss** 

Rated	data
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Input	
Number of phases	3 AC
Line voltage	380 480 V +10 % -20 %
Line frequency	47 63 Hz
Rated current (LO)	64.00 A
Rated current (HO)	61.00 A
Output	
Number of phases	3 AC
Rated voltage	400 V
Rated power IEC 400V (LO)	37.00 kW
Rated power NEC 480V (LO)	40.00 hp
Rated power IEC 400V (HO)	30.00 kW
Rated power NEC 480V (HO)	30.00 hp
Rated current (IN)	68.00 A
Rated current (LO)	68.00 A
Rated current (HO)	58.00 A
Max. output current	116.00 A
Pulse frequency	4 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

0.90 0.95
0.99
0.98
72 dB

1.01 kW

General tech. specifications

Filter class (integrated) Unfiltered

### **Ambient conditions**

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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			Figure s
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 AWG 1
Height	472 mm (18.58 in)	Line side	
Depth	237 mm (9.33 in)	Version	screw-type terminal
Inputs / out	puts	Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG
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 AWG
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 AWG
Number	1	Line length, max.	10 m (32.81 ft)
Digital outputs		PE connection	Screw-type terminals
Number as relay changeover contact	1	Max. motor cable length	seien type teininais
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
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-Volt Directive 2006/95/EC
Switching threshold as digital inp	out		
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  $\pm 5~^{\circ}\text{C}$ 



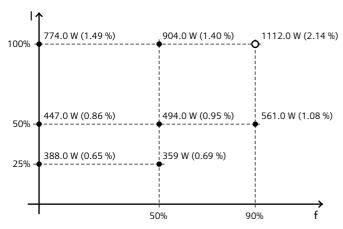
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### Converter losses to EN 50598-2\*

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