

**MLFB-Ordering data** 

6SL3210-1KE23-8AF1

No image available for this configuration.

Figure similar

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

Item no.: Consignment no. : Project:

Rated da	ita	General tech.	sp
nput		Power factor λ	
Number of phases	3 AC	Offset factor cos φ	
Line voltage	380 480 V +10 % -20 %	Efficiency η	
Line frequency	47 63 Hz	Sound pressure level (1m)	
Rated current (LO)	48.20 A	Power loss	
Rated current (HO)	45.20 A	Filter class (integrated)	
Output		Ambient c	or
Number of phases	3 AC	Ambiente	01
Rated voltage	400 V	Cooling	Ai
Rated power IEC 400V (LO)	18.50 kW	Cooling air requirement	0.
Rated power NEC 480V (LO)	25.00 hp	Installation altitude	10
Rated power IEC 400V (HO)	15.00 kW		10
Rated power NEC 480V (HO)	20.00 hp	Ambient temperature	-1
Rated current (IN)	38.00 A	Operation	
Rated current (LO)	37.00 A	Transport	-4
Rated current (HO)	31.00 A	Storage	-4
Max. output current	62.00 A	Relative humidity	
Pulse frequency	4 kHz	Max. operation	9! ar
Output frequency for vector control	0 240 Hz		
		Closed-loop con	tro
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameteriz	zab
		V/f with flux current control (FCC)	

Overload ca	pability
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## 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	0.70 0.85	
Offset factor cos φ	0.95	
Efficiency η	0.97	
Sound pressure level (1m)	66 dB	
Power loss	0.50 kW	
Filter class (integrated)	Class A	

Ambient conditions		
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.018 m³/s (0.636 ft³/s)	
Installation altitude	1000 m (3280.84 ft)	
Ambient temperature		
Operation	-10 40 °C (14 104 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-40 70 °C (-40 158 °F)	
Relative humidity		

## 95 % At $40 ^{\circ}$ C ( $104 ^{\circ}$ F), condensation and icing not permissible

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
Mechanical data		Com	munication
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP
Size	FSC	Connections	
Net weight	4.40 kg (9.70 lb)	Signal cable	
Width	140 mm (5.51 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16
Height	295 mm (11.61 in)	Line side	
Depth	225 mm (8.86 in)	Version	Plug-in screw terminals
Inputs / out	puts	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6
tandard digital inputs		Motor end	
Number	6	Version	Plug-in screw terminals
Switching level: 0→1	11 V	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6
Switching level: 1→0	5 V	DC link (for braking resistor)	
Max. inrush current	15 mA	Version	Plug-in screw terminals
ail-safe digital inputs		Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6
Number	1	Line length, max.	15 m (49.21 ft)
igital outputs			
Number as relay changeover contact	1	PE connection  Max. motor cable length	On housing with M4 screw
Output (resistive load)	DC 30 V, 0.5 A	Shielded	150 m (492.13 ft)
Number as transistor	1	Unshielded	150 m (492.13 ft)
Output (resistive load)	DC 30 V, 0.5 A	Standards	
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-Volta Directive 2006/95/EC
witching threshold as digital inp	out		
0→1	4 V		
1→0	1.6 V		
nalog outputs			
Number	1 (Non-isolated output)		

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

PTC/ KTY interface



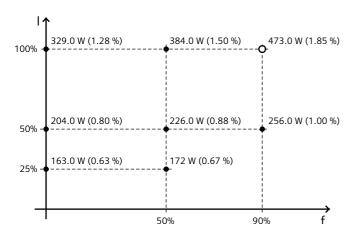
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## Converter losses to EN 50598-2\*

Efficiency class IE2

Comparison with the reference converter (90% / 100%) -63.37 %



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.

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Figure similar

<sup>\*</sup>converted values