

# **MLFB-Ordering data**

6SL3210-1KE13-2UF2



Figure similar

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

Offer no. : Remarks :		Project :		
Rated data		General tech. specifications		
Input		Power factor λ	0.	70 0.85
Number of phases	3 AC	Offset factor cos φ	0.	95
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.	97
Line frequency	47 63 Hz	Sound pressure level (1m)	49	dB
Rated current (LO)	4.10 A	Power loss	0.0	05 kW
Rated current (HO)	3.20 A	Ambient conditions		
Output		Alliblei	it conditio	1115
Number of phases	3 AC	Cooling	Air coolir	ng using an integrated fan
Rated voltage	400 V	Cooling air requirement	0.00E m	81c (0 177 ft3/c)
Rated power IEC 400V (LO)	1.10 kW	Cooling air requirement Installation altitude		3/s (0.177 ft³/s)
Rated power NEC 480V (LO)	1.50 hp		1000 m (	(3280.84 ft)
Rated power IEC 400V (HO)	0.75 kW	Ambient temperature	40.40	05 (4.4 4.0.4.05)
Rated power NEC 480V (HO)	1.00 hp	Operation		°C (14 104 °F)
Rated current (IN)	3.20 A	Transport		°C (-40 158 °F)
Rated current (LO)	3.10 A	Storage	-40 70	°C (-40 158 °F)
Rated current (HO)	2.20 A	Relative humidity		
Max. output current	4.40 A	Max. operation		10 °C (104 °F), condensation not permissible
Pulse frequency	4.000 kHz			
Output frequency for vector control	0 240 Hz	Closed-loop control techniques		
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parame	terizable	Yes
		V/f with flux current control (FC	CC)	Yes
		V/f ECO linear / square-law		Yes
Overload capability		Sensorless vector control		Yes
Low Overload (LO)		Vector control, with sensor		No
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Encoderless torque control		No
High Overload (HO)		Torque control, with encoder		No

Item no.:

Consignment no. :

300 s cycle time

200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a

Communication

PROFINET / EtherNet/IP

Communication

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# **MLFB-Ordering data**

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Mechanical data		Connections		
Degree of protection	IP20 / UL open type	Signal cable		
Size	FSAA	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Net weight	1.40 kg (3.09 lb)	Line side		
Width	73 mm (2.87 in)	Version	Plug-in screw terminals	
Height	173 mm (6.81 in)	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
Depth	178 mm (7.01 in)	Motor end		
Inputs / out	tputs	Version	Plug-in screw terminals	
Standard digital inputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
Number	6	DC link (for braking resistor)		
Switching level: 0→1	11 V	Version	Plug-in screw terminals	
Switching level: 1→0	5 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
Max. inrush current	15 mA	Line length, max.	15 m (49.21 ft)	
Fail-safe digital inputs		PE connection	On housing with M4 screw	
Number	1	Max. motor cable length	<b>3</b>	
Digital outputs		Shielded	50 m (164.04 ft)	
Number as relay changeover contact	1	Unshielded	100 m (328.08 ft)	
Output (resistive load)	DC 30 V, 0.5 A	Standards		
Number as transistor	1	Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Output (resistive load)	DC 30 V, 0.5 A		EMC D	
Analog / digital inputs		CE marking EMC Directive 2004/108/EC, Low- Directive 2006/95/EC		
Number	1 (Differential input)			
Analog 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



# **MLFB-Ordering data**

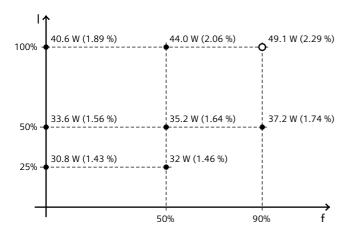
6SL3210-1KE13-2UF2

# NUSS

Figure similar

# Converter losses to EN 50598-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-77.61 %



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