

## **MLFB-Ordering data**

6SL3210-1KE23-2UP1



Figure similar

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

ltem no. :
Consignment no. :
Proiect :

Rated data		General tech. specifications		
put		Power factor λ	0.7	0 0.85
Number of phases	3 AC	Offset factor cos φ	0.9	95
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	)7
Line frequency	47 63 Hz	Sound pressure level (1m)	66	dB
Rated current (LO)	40.60 A	Power loss	0.4	3 kW
Rated current (HO)	36.40 A	Ambient conditions		
utput		Ambie		115
Number of phases	3 AC	Cooling	Air coolin	g using an integrated fa
Rated voltage	400 V	Cooling air requirement	0.010 m3	/s (0.636 ft³/s)
Rated power IEC 400V (LO)	15.00 kW	Cooling air requirement		. ,
Rated power NEC 480V (LO)	20.00 hp	Installation altitude	1000 m (.	3280.84 ft)
Rated power IEC 400V (HO)	11.00 kW	Ambient temperature		
Rated power NEC 480V (HO)	15.00 hp	Operation	-10 40 °C (14 104 °F)	
Rated current (IN)	32.00 A	Transport		°C (-40 158 °F)
Rated current (LO)	31.00 A	Storage	-40 70	°C (-40 158 °F)
Rated current (HO)	25.00 A	Relative humidity		
Max. output current	50.00 A	95 % At 40 °C (104 °F), cond Max. operation and icing 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	eterizable	Yes
		V/f with flux current control (F	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)

200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time

Torque control, with encoder

Communication

Generated Wed Nov 28 17:36:21 CET 2018

PROFIBUS DP

Communication

No



# **MLFB-Ordering data**

6SL3210-1KE23-2UP1

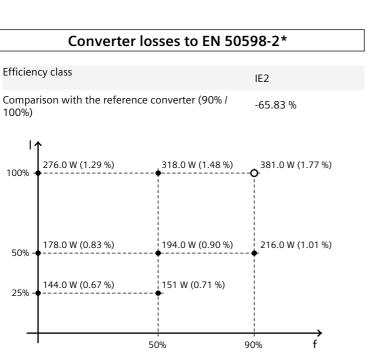


Mechanical data		Figure similar Connections			
Degree of protection			Signal cable		
Size	FSC	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)		
Net weight	4.40 kg (9.70 lb)	Line side			
Width	140 mm (5.51 in)	Version	Plug-in screw terminals		
Height	295 mm (11.61 in)	Conductor cross-section	6.00 16.00 mm <sup>2</sup> (AWG 10 AWG 6)		
Depth	203 mm (7.99 in)	Motor end			
-		Version	Plug-in screw terminals		
Inputs / outputs Standard digital inputs			-		
	<i>c</i>	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)		
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	6.00 16.00 mm² (AWG 10 AWG 6)		
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			
Digital outputs		Shielded	150 m (492.13 ft)		
Number as relay changeover contact	1	Unshielded	150 m (492.13 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				
Analog / digital inputs		CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC		
Number	1 (Differential input)				
Resolution	10 bit				
Switching threshold as digital input					
0→1	4 V				
1→0	1.6 V				
Analog outputs					
Number	1 (Non-isolated output)				
PTC/ KTY interface					
1 motor temperature sensor input, senso and Thermo-Click, accuracy $\pm 5~^\circ\mathrm{C}$	rs that can be connected: PTC, KTY				



### **MLFB-Ordering data**

#### 6SL3210-1KE23-2UP1



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



Figure similar