

MLFB-Ordering data

6SL3210-1KE23-8UB1



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
nput		Power factor λ	0.7	70 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	97
Line frequency	47 63 Hz	Sound pressure level (1m)	66	dB
Rated current (LO)	48.20 A	Power loss	0.5	50 kW
Rated current (HO)	45.20 A	Filter class (integrated)	Un	filtered
Dutput		Ambian	t conditio	2
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air coolin	ig using an integrated fan
Rated power IEC 400V (LO)	18.50 kW	Cooling air requirement	0.018 m3	(0 626 ft3/c)
Rated power NEC 480V (LO)	25.00 hp			/s (0.636 ft ³ /s)
Rated power IEC 400V (HO)	15.00 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (HO)	20.00 hp	Ambient temperature		
Rated current (IN)	38.00 A	Operation		°C (14 104 °F)
Rated current (LO)	37.00 A	Transport		°C (-40 158 °F)
Rated current (HO)	31.00 A	Storage	-40 70	°C (-40 158 °F)
Max. output current	62.00 A	Relative humidity		
Pulse frequency	4 kHz	95 % At 40 °C (104 °F), conden Max. operation and icing not permissible		
Output frequency for vector control	0 240 Hz			
output frequency for vector control	0 240 112	Closed-loop control techniques		
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramet	erizable	Yes
		V/f with flux current control (FC	C)	Yes
Overload capability		V/f ECO linear / square-law		Yes
Low Overload (LO)		Sensorless vector control		Yes
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Vector control, with sensor		No
		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

No

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Torque control, with encoder



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Figure similar

Mechanical data		Figure similar Communication		
Degree of protection	IP20 / UL open type	Communication	USS/MODBUS RTU	
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	203 mm (7.99 in)	Version	Plug-in screw terminals	
Inputs / outputs		Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)	
Standard 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	
Fail-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)	
Digital outputs		PE connection	On housing with M4 screw	
Number as relay changeover contact	1	Max. motor cable length	on housing with wristlew	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)	
Number as transistor	1	Unshielded	150 m (492.13 ft)	
Output (resistive load)	DC 30 V, 0.5 A	Standards		
Analog / digital inputs				
Number	1 (Differential input)	Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low-Voltage 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 $\pm 5~^\circ\mathrm{C}$

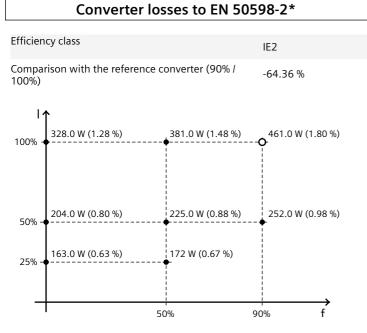


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Figure similar



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