

MLFB-Ordering data

6SL3210-1KE24-4AF1



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

Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
nput		Power factor λ	0.9	0 0.95
Number of phases	3 AC	Offset factor cos φ	0.9	9
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	8
Line frequency	47 63 Hz	Sound pressure level (1m)	72	dB
Rated current (LO)	41.00 A	Power loss	0.6	8 kW
Rated current (HO)	39.00 A	Filter class (integrated)	Cla	ss A
Dutput		Ambior	at conditio	
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan
Rated power IEC 400V (LO)	22.00 kW		0.055	
Rated power NEC 480V (LO)	25.00 hp	Cooling air requirement		/s (1.942 ft³/s)
Rated power IEC 400V (HO)	18.50 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (HO)	20.00 hp	Ambient temperature		
Rated current (IN)	43.00 A	Operation		°C (-4 104 °F)
Rated current (LO)	43.00 A	Transport		°C (-40 158 °F)
Rated current (HO)	37.00 A	Storage	-40 70	°C (-40 158 °F)
Max. output current	74.00 A	Relative humidity		
Pulse frequency	4 kHz	Max. operation 95 % RH, condensation not po		condensation not permitte
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
Overload capability		V/f ECO linear / square-law Yes		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 High Overload (HO)		Vector control, with sensor		No
		Encoderless torque control		No

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

No



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Machanical data		Com	Figure similar		
Mechanical data			Communication		
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 16)		
Height	472 mm (18.58 in)	Line side			
Depth	237 mm (9.33 in)	Version	screw-type terminal		
Inputs / out	tputs	Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)		
itandard 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 2)		
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 2)		
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			
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	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-Voltage Directive 2006/95/EC		
witching threshold as digital in	out				
0→1	4 V				
1→0	1.6 V				
nalog outputs					

Number

1 (Non-isolated output)

PTC/ KTY interface

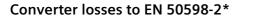
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\mathrm{C}$

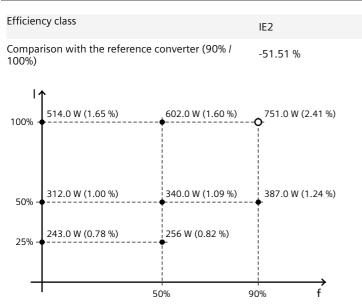


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Figure similar





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