

# **MLFB-Ordering data**

6SL3210-1KE24-4AF1



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

Item no. :
Consignment no. :
Project :

Rated da	ata	General tec	h. specifica	ations
Input		Power factor λ	0.90	) 0.95
Number of phases	3 AC	Offset factor cos φ	0.99	9
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.98	3
Line frequency	47 63 Hz	Sound pressure level (1m)	72 0	JB
Rated current (LO)	41.00 A	Power loss	0.68	3 kW
Rated current (HO)	39.00 A	Filter class (integrated)	Clas	ss A
Output		-		
Number of phases	3 AC	Ambien	t conditior	15
Rated voltage	400 V	Cooling	Air cooling	using an integrated fan
Rated power IEC 400V (LO)	22.00 kW	Cooling air requirement	0 055 m <sup>3</sup> /s	s (1.942 ft³/s)
Rated power NEC 480V (LO)	25.00 hp	Installation altitude		
Rated power IEC 400V (HO)	18.50 kW		1000 m (3	200.04 1()
Rated power NEC 480V (HO)	20.00 hp	Ambient temperature	20 40 5	
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, c	ondensation not permitted
Output frequency for vector control	0 240 Hz			
		Closed-loop c	ontrol tech	niques
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	Vector control, with sensor		No
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	Torque control, with encoder		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



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Mechanical data		Com	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	
Height	472 mm (18.58 in)	Line side		
Depth	237 mm (9.33 in)	Version	screw-type terminal	
Inputs / outputs		Conductor cross-section	10.00 35.00 mm² (AWG	
andard 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	
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 mm <sup>2</sup> (AWG	
Number	1			
gital outputs		Line length, max.	10 m (32.81 ft)	
Number as relay changeover contact	1	PE connection Max. motor cable length	Screw-type terminals	
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		tandards	
nalog / digital inputs	DC 30 V, 0.3 M		Stanuarus	
	1 (Differential in such)	Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Number Resolution	1 (Differential input) 10 bit	CE marking	EMC Directive 2004/108/EC Directive 2006/95/EC	
			Directive 2000/33/EC	
witching threshold as digital in	put			
0→1	4 V			
1→0	1.6 V			

Number

1 (Non-isolated output)

## PTC/ KTY interface

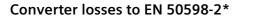
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy  $\pm 5~^\circ\mathrm{C}$ 

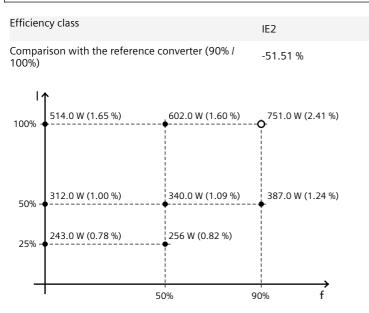


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# Figure similar





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