

## **MLFB-Ordering data**

6SL3210-1KE23-8UP1



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

Item no.: Consignment no. : Proiect :

Offer no. : Remarks :	Pi	roject :		
Rated data		General tech. specifications		
Input		Power factor λ	0.70	) 0.85
Number of phases	3 AC	Offset factor cos φ	0.95	5
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97	7
Line frequency	47 63 Hz	Sound pressure level (1m)	66 0	ЯВ
Rated current (LO)	48.20 A	Power loss	0.50	) kW
Rated current (HO)	45.20 A	Ambient conditions		
Output				
Number of phases	3 AC	Cooling	Air cooling	using an integrated fan
Rated voltage	400 V	Cooling air requirement 0.018 m³/s		5
Rated power (LO)	18.50 kW	Installation altitude	1000 m	
Rated power (HO)	15.00 kW	Ambient temperature		
Rated current (IN)	38.00 A	Operation -10 40 °C (14		C (14 104 °F)
Rated current (LO)	37.00 A	Transport -40 70 °C (-40 158		C (-40 158 °F)
Rated current (HO)	31.00 A	Storage -40 70 °C (-40 158 °		C (-40 158 °F)
Max. output current	62.00 A	Relative humidity		
Pulse frequency	4.000 kHz	95 % At 40 °C (104 °F),  Max. operation and icing not permissible		°C (104 °F), condensation
Output frequency for vector control	0 240 Hz			not permissible
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques		iniques
		V/f linear / square-law / paramet	terizable	Yes
Overload canability		V/f with flux current control (FC	.C)	Yes
Overload capability		V/f ECO linear / square-law		Yes
Low Overload (LO)  150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Sensorless vector control		Yes
		Vector control, with sensor		No
High Overload (HO)		Encoderless torque control No		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

Technical	data are cubier	t to change!	There may	he discrenancies	hetween c	alculated an	d rating plate values	

Communication

PROFIBUS DP

Communication



## **MLFB-Ordering data**

**Analog outputs** 

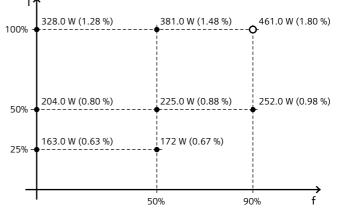
PTC/ KTY interface

Number

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Mechanica	l data	Con	Figure simi	
Mechanical data		Connections		
Degree of protection	IP20 / UL open type	Signal cable		
Size	FSC	Conductor cross-section	0.15 1.50 mm <sup>2</sup> (24 16 AWG)	
Net weight	4.40 kg	Line side		
Width	140.0 mm	Version	Plug-in screw terminals	
Height	295.0 mm	Conductor cross-section	6.00 16.00 mm² (10 6 AWG)	
Depth	203.0 mm	Motor end		
Inputs / outputs		Version	Plug-in screw terminals	
Standard digital inputs		Conductor cross-section	6.00 16.00 mm² (10 6 AWG)	
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 (10 6 AWG)	
Max. inrush current	15 mA	PE connection	On housing with M4 screw	
Fail-safe digital inputs		Max. motor cable length		
Number	1	Shielded	50 m	
Digital outputs		Unshielded	100 m	
Number as relay changeover contact	1	Converter losses to EN 50598-2*		
Output (resistive load)	DC 30 V, 0.5 A	Efficiency class		
Number as transistor	1		IE2	
Output (resistive load)	DC 30 V, 0.5 A	Comparison with the reference of 100%)	onverter (90% / -64.36 %	
Analog / digital inputs				
Number	1 (Differential input)	328.0 W (1.28 %)	381.0 W (1.48 %) 461.0 W (1.80 %)	



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.

<sup>\*</sup>converted values

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5^{\circ}\text{C}$		
Standards		
Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC	

1 (Non-isolated output)