

MLFB-Ordering data

6SL3210-1KE23-2UB1



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

Item no.: Consignment no. : Project :

Rated data		General tech. specifications				
Input		Power factor λ	0.70	0.85		
Number of phases	3 AC	Offset factor cos φ	0.95			
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97			
Line frequency	47 63 Hz	Sound pressure level (1m)	66 d	В		
Rated current (LO)	40.60 A	Power loss	0.43	kW		
Rated current (HO)	32.00 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	0.018 m³/s		
Rated power (LO)	15.00 kW	Installation altitude 1000 m				
Rated power (HO)	11.00 kW	Ambient temperature				
Rated current (IN)	32.00 A	Operation -10 40 °C (14 104		C (14 104 °F)		
Rated current (LO)	31.00 A	Transport -40 70 °C (-40 15		C (-40 158 °F)		
Rated current (HO)	25.00 A	Storage -40 70 °C (-40 158		C (-40 158 °F)		
Max. output current	50.00 A	Relative humidity				
Pulse frequency	4 kHz			5 % At 40 °C (104 °F), condensation		
Output frequency for vector control	0 240 Hz	Max. operation	and icing n	and icing not permissible		
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques		niques		
		V/f linear / square-law / paramet	erizable	Yes		
		V/f with flux current control (FC	C)	Yes		
		V/f ECO linear / square-law		Yes		
Overload capability		Sensorless vector control		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 High Overload (HO)		Vector control, with sensor No		No		
		Encoderless torque control No		No		
		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		Communication				
		Communication	RS485			



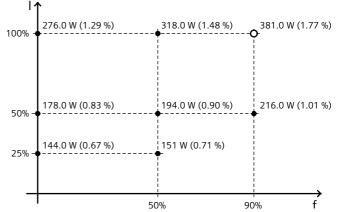
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Mechanical data		Co	Connections		
Degree of protection	IP20 / UL open type	Signal cable			
Size	FSC	Conductor cross-section	0.15 1.50 mm² (28 16 AWG)		
Net weight	4.40 kg	Line side			
Width	140.0 mm	Version	Plug-in screw-type terminals		
Height	295.0 mm	Conductor cross-section	6.00 16.00 mm² (10 5 AWG)		
Depth	203.0 mm	Motor end			
Inputs / ou	tputs	Version	Plug-in screw terminals		
tandard digital inputs		Conductor cross-section	6.00 16.00 mm² (10 5 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 5 AWG)		
Max. inrush current	15 mA	PE connection	On housing with M4 screw		
ail-safe digital inputs		Max. motor cable length			
Number	1	Shielded	50 m		
igital outputs		Unshielded	100 m		
Number as relay changeover contact	1	Converter losses to EN 50598-2*			
Output (resistive load)	DC 30 V, 1 A	Efficiency class			
Number as transistor	1	Comparison with the reference converter (90% / 100%) -65.83 %			
Output (resistive load)	DC 30 V, 1 A				
nalog / digital inputs					
Number	1 (Differential input)	276.0 W (1.29 %)	318.0 W (1.48 %) 381.0 W (1.77 %)		



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.

PTC/ KTY interface

Analog outputs

Number

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy ±5 °C

Standards

Compliance with standards UL, cUL, CE, C-Tick (RCM)

EMC Directive 2004/108/EC, Low-Voltage **CE** marking

Directive 2006/95/EC

1 (Non-isolated output)

^{*}calculated values; increased by 10% according to the standard