

MLFB-Ordering data

6SL3120-1TE28-5AA3



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

Item no. :
Consignment no. :
Project :

Rated da	ta	Ambien	t conditions	
DC link voltage	DC 510 720 V			
Electronics power supply	DC 24 V -15 % / +20 %	Installation altitude (without derating)	1000 m (3281 ft)	
Current demand, max.	1.50 A	Cooling ⁸⁾	Internal air cooling	
DC-link current I _d	102.0 A	Cooling air requirement	0.044 m³/s	
Output current		Ambient temperature		
Rated value I _N	85.0 A	During operation	0 40 °C (32 104 °F)	
Base load current I _H	68.0 A	Con	nections	
For S6 duty (40%) I _{S6}	110.0 A	Motor end		
I _{max}	141.0 A	Version	M8 bolt (X1)	
Type rating ²⁾		Conductor cross-section	3 95 mm² (142 AWG)	
Based on _{IN}	46.0 kW	PE connection	M6 screw	
Based on _{IH}	37.0 kW			
Rated pulse frequency	4.00 kHz	Max. motor cable length		
Current carrying capacity		Shielded	100 m (328 ft)	
DC link busbars	200 A	Unshielded	150 m (492 ft)	
24 V busbars	20 A			
DC link capacitance	1880 μF	Standards		
Output frequency for servo control 5)	0 650 Hz	Compliance with standards	CE, cULus	
Output frequency for V/f control ⁶⁾	0 600 Hz	Safety Integrated	SIL 2 acc. to IEC 61508, PL d acc. to EN ISO 13849-1, Category 3 acc. to EN ISO 13849-1	
Output frequency for vector control 7)	0 300 Hz			



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Mechanical data		General te	General tech. specifications	
side		Sound pressure level (1m)	60.0 dB	
lth	200.00 mm (7.87 in)	Power loss, typ./max. 9)	0.77 kW / 0.79 kW	
eight	380.00 mm (14.96 in)			
pth	270.00 mm (10.63 in)			
ree of protection	IP20 / UL open type			
e of construction	Booksize			
weight	15.0 kg (33.07 lb)			

- 7) Observe the dependency between max. output frequency and current derating.
- 8) Power units with intensified air cooling thanks to integrated fan
- 9) Power loss of the Motor Module with rated power including losses of the 24 V DC electronics power supply

²⁾ Rated output of a typical standard asynchronous motor at 400 V 3 AC

⁵⁾ With rated output current (max. output frequency 1300 Hz at a current controller cycle of 62.5 µs, pulse frequency 8 kHz, 60 % permissible output current). Observe the dependency between max. output frequency and current derating. At present, the output frequency is limited to 550 Hz, the values stated apply with the high output frequency license.

⁶⁾ Observe the dependency between max. output frequency and current derating. At present, the output frequency is limited to 550 Hz, the values stated apply with the high output frequency license.