

MLFB-Ordering data

6SL3420-1TE21-8AA1



Client order no. :

Order no. : Offer no. :

Remarks :

ltem no. : Consignment no. : Project :

Rated data		Ambier	Ambient conditions	
DC link voltage	DC 510 720 V	Installation altitude (without derating)	1000 m (3281 ft)	
Electronics power supply	DC 24 V -15 % / +20 %	Cooling ⁸⁾	Internal air cooling	
Current demand, max.	0.85 A			
DC-link current I _d	22.0 A	Cooling air requirement	0.008 m³/s	
Output current		Ambient temperature		
Rated value I _N	18.0 A	During operation	0 40 °C (32 104 °F)	
Base load current I _H	15.3 A	Connections		
For S6 duty (40%) I _{S6}	24.0 A	Motor end		
I _{max}	54.0 A	Version	connector (X1) with Screw-type	
Type rating ²⁾		Conductor cross-section	0 6 mm² (24 10 AWG)	
Based on _{IN}	9.7 kW	PE connection	M5 screw	
Based on _{IH}	8.2 kW	Shield connecting kit	Integrated connection plug (X1)	
Rated pulse frequency	4.00 kHz	Max. motor cable length		
Current carrying capacity		Shielded	70 m (230 ft)	
DC link busbars	100 A	Unshielded	100 m (328 ft)	
24 V busbars ⁴⁾	20 A	Standards		
DC link capacitance	235 µF			
Output frequency for servo control ⁵⁾	650 Hz	Compliance with standards	CE / UL	
Output frequency for V/f control ⁶⁾	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⁾	300 Hz			



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Mechanical data		General te	General tech. specifications	
Line side		Sound pressure level (1m)	60.0 dB	
Width	75.00 mm (2.95 in)	Power loss, typ. ⁹⁾	0.18 kW	
Height	270.00 mm (10.63 in)			
Depth	226.00 mm (8.90 in)			
Degree of protection	IP20			
Type of construction	Booksize Compact			
Net weight	3.4 kg (7.50 lb)			

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

4) If, when connecting several Line Modules and Motor Modules in series, the current carrying capacity exceeds 20 A, another 24 V DC connection is required using a 24 V terminal adapter (max. connectable cross-section 6 mm2, max. protection 20 A).

5) 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.

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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