

Data sheet for Motor Module

Article No.: 6SL3120-2TE21-0AD0

Figure simila

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

During operation

Rate	d data	
DC link voltage	DC 510 720 V	
Electronics power supply	DC 24 V -15 % / +20 %	
Current demand, max.	0.90 A	
DC-link current I _d 1)	22.0 A	
Output current		
Rated value I _N	2 x 9.0 A	
Base load current I _H	2 x 7.7 A	
For S6 duty (40%) I _{S6}	2 x 12.0 A	
I _{max}	2 x 27.0 A	
Type rating ²⁾		
Based on IN	2 x 4.8 kW	
Based on IH	2 x 4.1 kW	
Rated pulse frequency	4.00 kHz	
Current carrying capacity		
DC link busbars 3)	100 A	
24 V busbars 4)	20 A	
DC link capacitance	220 μF	
Output frequency for servo control 5)	650 Hz	
Output frequency for V/f control 6	600 Hz	
Output frequency for vector control 7)	300 Hz	
Ambient conditions		
Installation altitude (without derating)	1,000 m (3,281 ft)	
Cooling 8)	Internal air cooling	
Cooling air requirement	0.009 m ³ /s	
Ambient temperature		

ltem no. :
Consignment no. :
Project :

Connections		
Motor end		
Version	connector (X1, X2)	
Conductor cross-section	1.5 6 mm² (16 10 AWG)	
PE connection	M5 screw	
Max. motor cable length		
Shielded	50 m (164 ft)	
Unshielded	75 m (246 ft)	
Standards		
Compliance with standards	CE, cULus	
Safety Integrated	SIL 2 acc. to IEC 61508, PL d acc. to EN ISO 13849-1, Category 3 acc. to EN ISO 13849-1	
Me	chanical data	
Line side		
Width	50.00 mm (1.97 in)	
Height	380.00 mm (14.96 in)	
Depth	270.00 mm (10.63 in)	
Degree of protection	IP20 / UL open type	
Type of construction	Booksize	
Net weight	4.7 kg (10.36 lb)	
General tech. specifications		
Sound pressure level (1m)	60.0 dB	

Power loss, typ./max. 9)

0.15 kW / 0.19 kW

0 ... 40 °C (32 ... 104 °F)

 $^{^{\}rm 1)}{\rm Rated}$ dc link current for dimensioning an external DC connection

 $^{^{\}rm 2)} \rm Rated$ output of a typical standard asynchronous motor at 400 V 3 AC

³⁾200 A possible with reinforced DC link bridges (accessory).

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⁾ 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.

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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

 $^{^{9)}\}mbox{Power loss of the Motor Module with rated power including losses of the 24 V DC electronics power supply$