SIEMENS

Data sheet for Motor Module



Figure similar

Article No. : **6SL3120-1TE21-8AA4**

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

Item no. :
Consignment no. :
Project :

Rated data	
DC link voltage	DC 510 ... 720 V
Electronics power supply	DC 24 V -15 % / +20 %
Current demand, max.	0.85 A
DC-link current I_d	22.0 A
Output current	
Rated value I_N	18.0 A
Base load current I_H	15.3 A
For S6 duty (40%) I_{S6}	24.0 A
I_{max}	54.0 A
Type rating [2]	
Based on $_{IN}$	9.7 kW
Based on $_{IH}$	8.2 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

Ambient conditions	
Installation altitude (without derating)	1,000 m (3,281 ft)
Cooling [8]	Internal air cooling
Cooling air requirement	0.008 m³/s
Ambient temperature	
During operation	0 ... 40 °C (32 ... 104 °F)

Connections	
Motor end	
Version	connector (X1)
PE connection	M5 screw
Shield connecting kit	Integrated connection plug (X1)
Max. motor cable length	
Shielded	70 m (230 ft)
Unshielded	100 m (328 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

Mechanical 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	5.0 kg (11.02 lb)

General tech. specifications	
Sound pressure level (1m)	60.0 dB
Power loss, typ./max. [9]	0.14 kW / 0.19 kW

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

[3] Possible with reinforced dc link busbar set 140 A (accessories).

[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).

[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

Subject to change. Calculated values may differ from nameplate ratings. © Copyright Siemens