

SIEMENS

Data sheet for Motor Module



MLFB-Ordering data 6SL3120-2TE21-8AA3

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

Item no. :
Consignment no. :
Project :

Rated data		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.	1.00 A	Cooling air requirement	0.016 m³/s
DC-link current I _d	43.0 A	Ambient temperature	
Output current		During operation	
Rated value I _N	2 x 18.0 A	0 ... 40 °C (32 ... 104 °F)	
Base load current I _H	2 x 15.3 A	Connections	
For S6 duty (40%) I _{S6}	2 x 24.0 A		
I _{max}	2 x 36.0 A	Motor end	
Type rating ²⁾		Version	connector (X1, X2)
Based on I _N	2 x 9.7 kW	PE connection	M5 screw
Based on I _H	2 x 8.2 kW	Shield connecting kit	Integrated connection plug (X1, X2)
Current carrying capacity		Max. motor cable length	
DC link busbars	100 A	Shielded	70 m (230 ft)
24 V busbars ⁴⁾	20 A	Unshielded	100 m (328 ft)
DC link capacitance	705 µF	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

MLFB-Ordering data

6SL3120-2TE21-8AA3



Mechanical data		General tech. specifications	
Line side		Sound pressure level (1m)	60.0 dB
Width	100.00 mm (3.94 in)	Power loss, typ./max. ⁹⁾	0.28 kW / 0.35 kW
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	6.8 kg (14.99 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).

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