

# SIEMENS

## Data sheet for Motor Module



Figure similar

MLFB-Ordering data                      6SL3121-2TE21-8AA3

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 <sup>8)</sup>	External air cooling
Current demand, max.	1.00 A	Cooling air requirement	0.016 m³/s
DC-link current I <sub>d</sub>	43.0 A	Ambient temperature	
Output current		During operation	0 ... 40 °C (32 ... 104 °F)
Rated value I <sub>N</sub>	2 x 18.0 A	Connections	
Base load current I <sub>H</sub>	2 x 15.3 A	Motor end	
For S6 duty (40%) I <sub>S6</sub>	2 x 24.0 A	Version	connector (X1, X2)
I <sub>max</sub>	2 x 36.0 A	PE connection	M5 screw
Type rating <sup>2)</sup>		Shield connecting kit	Integrated connection plug (X1, X2)
Based on I <sub>N</sub>	2 x 9.7 kW	Max. motor cable length	
Based on I <sub>H</sub>	2 x 8.2 kW	Shielded	70 m (230 ft)
Current carrying capacity		Unshielded	100 m (328 ft)
DC link busbars	100 A	Standards	
24 V busbars <sup>4)</sup>	20 A	Compliance with standards	CE, cULus
DC link capacitance	705 µF	Safety Integrated	SIL 2 acc. to IEC 61508, PL d acc. to EN ISO 13849-1, Category 3 acc. to EN ISO 13849-1



Figure similar

Mechanical data		General tech. specifications	
<b>Line side</b>		<b>Sound pressure level (1m)</b>	60.0 dB
<b>Width</b>	100.00 mm (3.94 in)	<b>Power loss, max. <sup>9)</sup></b>	0.24 kW
<b>Height</b>	380.00 mm (14.96 in)		
<b>Depth</b>	226.00 mm (8.90 in)		
<b>Degree of protection</b>	IP20 / UL open type		
<b>Type of construction</b>	Booksize		
<b>Net weight</b>	8.6 kg (18.96 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 mm<sup>2</sup>, 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