SIEMENS

Data sheet for Motor Module

MLFB-Ordering data

6SL3120-2TE21-8AA3

Figure similar

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.	1.00 A
DC-link current I_d	43.0 A

Output current

Rated value I_N	2 x 18.0 A
Base load current I_H	2 x 15.3 A
For S6 duty (40%) I_{S6}	2 x 24.0 A
I_{max}	2 x 36.0 A

Type rating [2)]

Based on $_{IN}$	2 x 9.7 kW
Based on $_{IH}$	2 x 8.2 kW

Current carrying capacity

DC link busbars	100 A
24 V busbars [4)]	20 A
DC link capacitance	705 µF

Ambient conditions

Installation altitude (without derating)	1000 m (3281 ft)
Cooling [8)]	Internal air cooling
Cooling air requirement	0.016 m³/s

Ambient temperature

During operation	0 ... 40 °C (32 ... 104 °F)

Connections

Motor end

Version	connector (X1, X2)
PE connection	M5 screw
Shield connecting kit	Integrated connection plug (X1, X2)

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

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Mechanical data

Line side

Width	100.00 mm (3.94 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	6.8 kg (14.99 lb)

General tech. specifications

Sound pressure level (1m)	60.0 dB
Power loss, typ./max. [9)]	0.28 kW / 0.35 kW

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