SIEMENS

Data sheet for Motor Module

Article No. : 6SL3320-1TE33-1AA3

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.	0.90 A
Current consumption 400V AC	1.80 A
DC-link current	
Rated current I_N DC	
- Basic/Smart Line Module	372 A
- Active Line Module	335 A
Base-load current I_L DC	
- Basic/Smart Line Module	362 A
- Active Line Module	326 A
Base-load current I_H DC	
- Basic/Smart Line Module	331 A
- Active Line Module	298 A
Output current	
Rated value I_N	310 A
Base-load current I_L [1]	302 A
Base load current I_H [2]	277 A
For S6 duty (40%) I_{S6}	340 A
I_{max}	453 A
Type rating [3]	
Based on I_N	200 kW
Based on I_H	132 kW
Pulse frequency	
Rated pulse frequency [4]	2.00 kHz
Pulse frequency, max.	8.00 kHz
DC link capacitance	6,300 µF
Output frequency for servo control	0 ... 550 Hz
Output frequency for V/f control	0 ... 550 Hz
Output frequency for vector control	0 ... 550 Hz

Ambient conditions

Installation altitude (without derating)	2,000 m (6,561.68 ft)
Cooling [5]	External air cooling
Cooling air requirement	0.36 m³/s (12.710 ft³/s)
Ambient temperature	
During operation	0 ... 40 °C (32 ... 104 °F)

Connections

Motor end	
Version	2 x M10 screw
Conductor cross-section	2 x 240 mm²
DC link	
Version	2 x M10 screw
Conductor cross-section	2 x 240 mm²
Braking module	
Version	M6 threaded bolt
PE1 connection	
Version	2 x M10 screw
Conductor cross-section	2 x 240 mm²
PE2 connection	
Version	2 x M10 screw
Conductor cross-section	2 x 240 mm²
Max. motor cable length [6]	
Shielded	300 m (984.25 ft)
Unshielded	450 m (1,476.38 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	
Dimensions	
Width	326 mm (12.83 in)
Height	1,533 mm (60.35 in)
Depth	545 mm (21.46 in)
Degree of protection	IP20
Type of construction	Chassis
Net weight	136 kg (299.83 lb)

General tech. specifications

Sound pressure level (1m) + 50 Hz / 60 Hz	69 dB / 73 dB
Power loss, max. [7]	
Power loss (50 Hz 400 V)	2.96 kW
Power loss (60 Hz 460 V)	3.10 kW

[1] The base-load current IL is the basis for a duty cycle of 110% for 60 s or 150% for 10 s with a duty cycle duration of 300 s.
[2] The base load current IH is based on a duty cycle of 150% for 60 s or 160% for 10 s with a duty cycle duration of 300 s.
[3] Rated power of a typ. 6-pole standard induction motor based on IL or IH at 3 AC 50 Hz 400 V or 3 AC 60 Hz 460 V.
[4] Information on the correlation between pulse frequency and maximum output current/output frequency is provided in the SINAMICS Low Voltage Configuration Manual.
[5] Power units with intensified air cooling thanks to integrated fan
[6] Sum of all motor cables and DC link. Longer cable lengths on request, depending on configuration. More information can be found in the SINAMICS Low Voltage Configuration Manual.
[7] The specified power loss represents the maximum value at 100% utilization. The value is lower under normal operating conditions.