

Data sheet for Motor Module

Article No. : 6SL3320-1TE32-1AA3

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

Item no. :
Consignment no. :
Project :



Figure similar

Rated data	
DC link voltage	DC 510 ... 720 V
Electronics power supply	DC 24 V -15 % / +20 %
Current demand, max.	0.80 A
Current consumption 400V AC	0.63 A
DC-link current	
Rated current I_N DC	
- Basic/Smart Line Module	252 A
- Active Line Module	227 A
Base-load current I_L DC	
- Basic/Smart Line Module	245 A
- Active Line Module	221 A
Base-load current I_H DC	
- Basic/Smart Line Module	224 A
- Active Line Module	202 A
Output current	
Rated value I_N	210 A
Base-load current I_L ¹⁾	205 A
Base load current I_H ²⁾	178 A
For S6 duty (40%) I_{S6}	230 A
I_{max}	307 A
Type rating ³⁾	
Based on I_N	150 kW
Based on I_H	90 kW
Pulse frequency	
Rated pulse frequency ⁴⁾	2.00 kHz
Pulse frequency, max.	2.00 kHz
DC link capacitance	4,200 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	0.17 m³/s (6.010 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 185 mm² (2 x -5 AWG)
DC link	
Version	2 x M10 screw
Conductor cross-section	2 x 185 mm² (2 x -5 AWG)
Braking module	
Version	M6 threaded bolt
PE1 connection	
Version	2 x M10 screw
Conductor cross-section	2 x 185 mm² (2 x -5 AWG)
PE2 connection	
Version	2 x M10 screw
Conductor cross-section	2 x 185 mm² (2 x -5 AWG)
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	1,400 mm (55.12 in)
Depth	356 mm (14.02 in)
Degree of protection	IP20
Type of construction	Chassis
Net weight	95 kg (209.44 lb)

General tech. specifications	
Sound pressure level (1m) + 50 Hz / 60 Hz	64 dB / 67 dB
Power loss, max. ⁷⁾	
Power loss (50 Hz 400 V)	1.86 kW
Power loss (60 Hz 460 V)	1.94 kW

¹⁾ The base-load current I_L 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 I_H is based on a duty cycle of 150% for 60 s or 160% for 10 s with a duty cycle duration of 300 s.

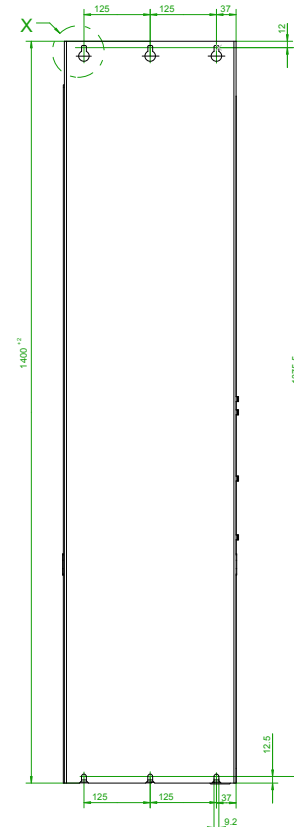
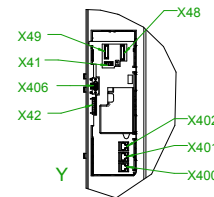
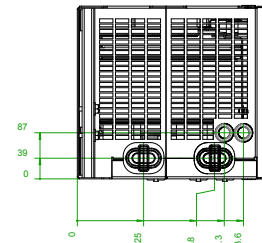
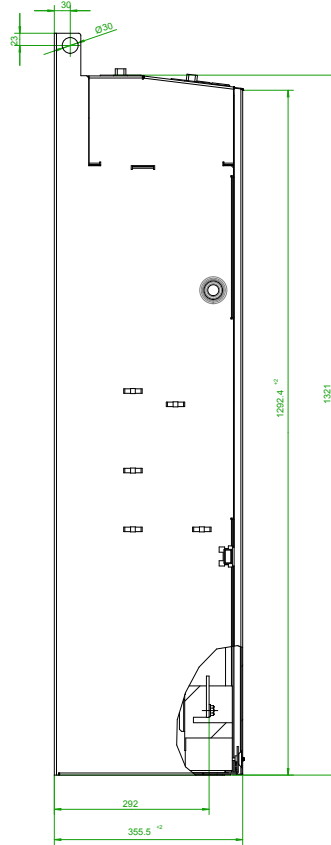
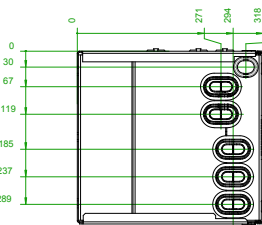
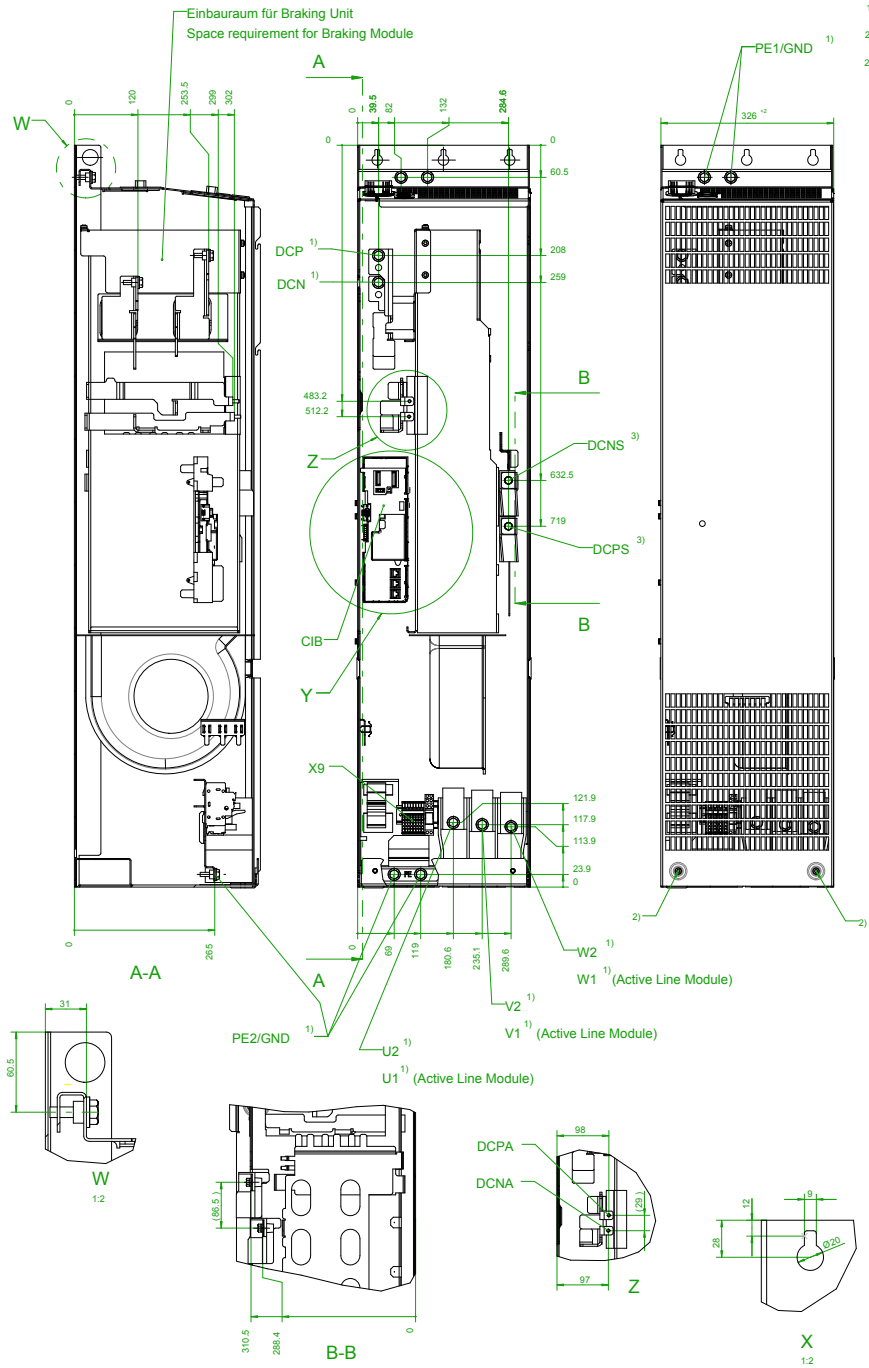
³⁾ Rated power of a typ. 6-pole standard induction motor based on I_L or I_H at 3 AC 50 Hz 400 V or 3 AC 60 Hz 460 V.

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.



Ansicht mit Befestigungsbohrungen:
- Montage mit 6 x M8
- Sicherungselement verwenden
- Anzugsdrehmoment: 13Nm +30%

View with mounting holes:
- fixing with 6 x M8
- use locking elements
- tightening torque: 13Nm +30%

Anschlussquerschnitt für folgende Anschlüsse max./
terminal cross-section for following connections max.:

2x 185mm² (je Anschluss / per connection)
PE2/GND
DCN, DCP
U2, V2, W2
U1, V1, W1 (Active Line Modul)

2x 185mm² (je Anschluss / per connection)
PE1/GND

35mm² (je Anschluss / per connection)
DCPA/DCNA

Anschlüsse Einpressgewindebolzen M6 /
connection of press threaded bolt M6:
DCPA, DCNA

1) Anschlusschrauben M10 = 25 Nm
connection screw M10 = 25 Nm

2) 2x Schraube für Tür M6 = 10Nm
2x screw for door M6 = 10Nm

3) Anschlusschrauben M8 = 13 Nm
connection screw M8 = 13 Nm

SIEMENS		
Einheit / unit: mm	SINAMICS S120: SINAMICS S120:	6SL3320-1TE32-1AA3
Allg. Toleranz: ISO 2768-mK; Tolerierung ISO 8015 / Gen. Toleranz: ISO 2768-mK; Tolerierung ISO 8015	Optionen / options: Gewichte / mass:	
Müllabfall / scale: ohne / without	Bemerkung / notice:	
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