

Article No. : 6SL3320-1TE33-8AA3



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.	0.90 A
Current consumption 400V AC	1.80 A
<b>DC-link current</b>	
Rated current $I_N$ DC	
- Basic/Smart Line Module	456 A
- Active Line Module	411 A
Base-load current $I_L$ DC	
- Basic/Smart Line Module	444 A
- Active Line Module	400 A
Base-load current $I_H$ DC	
- Basic/Smart Line Module	405 A
- Active Line Module	365 A
<b>Output current</b>	
Rated value $I_N$	
Rated value $I_N$	380 A
Base-load current $I_L$ <sup>1)</sup>	370 A
Base load current $I_H$ <sup>2)</sup>	340 A
For S6 duty (40%) $I_{S6}$	430 A
$I_{max}$	555 A
<b>Type rating</b> <sup>3)</sup>	
Based on $I_N$	250 kW
Based on $I_H$	160 kW
<b>Pulse frequency</b>	
Rated pulse frequency <sup>4)</sup>	
Rated pulse frequency <sup>4)</sup>	2.00 kHz
Pulse frequency, max.	8.00 kHz
DC link capacitance	7,800 $\mu$ F
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
<b>Ambient conditions</b>	
Installation altitude (without derating)	2,000 m (6,561.68 ft)
Cooling <sup>5)</sup>	External air cooling
Cooling air requirement	0.36 m <sup>3</sup> /s (12.710 ft <sup>3</sup> /s)
<b>Ambient temperature</b>	
During operation	0 ... 40 °C (32 ... 104 °F)

Connections	
<b>Motor end</b>	
Version	2 x M10 screw
Conductor cross-section	2 x 240 mm <sup>2</sup>
<b>DC link</b>	
Version	2 x M10 screw
Conductor cross-section	2 x 240 mm <sup>2</sup>
<b>Braking module</b>	
Version	M6 threaded bolt
<b>PE1 connection</b>	
Version	2 x M10 screw
Conductor cross-section	2 x 240 mm <sup>2</sup>
<b>PE2 connection</b>	
Version	2 x M10 screw
Conductor cross-section	2 x 240 mm <sup>2</sup>
<b>Max. motor cable length</b> <sup>6)</sup>	
Shielded	300 m (984.25 ft)
Unshielded	450 m (1,476.38 ft)
<b>Standards</b>	
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
<b>Mechanical data</b>	
<b>Line side</b>	
<b>Dimensions</b>	
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)
<b>General tech. specifications</b>	
Sound pressure level (1m) + 50 Hz / 60 Hz	69 dB / 73 dB
<b>Power loss, max.</b> <sup>7)</sup>	
Power loss (50 Hz 400 V)	3.67 kW
Power loss (60 Hz 460 V)	3.80 kW

<sup>1)</sup>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.

<sup>2)</sup>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.

<sup>3)</sup>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.

<sup>4)</sup>Information on the correlation between pulse frequency and maximum output current/output frequency is provided in the SINAMICS Low Voltage Configuration Manual.

<sup>5)</sup>Power units with intensified air cooling thanks to integrated fan

<sup>6)</sup>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.

<sup>7)</sup>The specified power loss represents the maximum value at 100% utilization. The value is lower under normal operating conditions.