

## **MLFB-Ordering data**

6SL3120-1TE22-4AC0



Client order no. : Order no. : Offer no. : Remarks : Item no. :
Consignment no. :
Project :

Rated data		Ambier	Ambient conditions	
DC link voltage	DC 510 720 V			
Electronics power supply	DC 24 V -15 % / +20 %	Installation altitude (without derating)	1000 m (3281 ft)	
Current demand, max.	1.00 A	Cooling <sup>8)</sup>	Internal air cooling	
DC-link current I <sub>d</sub> <sup>1)</sup>	29.0 A	Cooling air requirement	0.015 m³/s	
Output current		Ambient temperature		
Rated value I <sub>N</sub>	24.0 A	During operation	0 40 °C (32 104 °F)	
Base load current I <sub>H</sub>	20.4 A	Connections		
For S6 duty (40%) I <sub>S6</sub>	32.0 A	Motor end		
I <sub>max</sub>	48.0 A	Version	connector (X1)	
Type rating <sup>2)</sup>		Conductor cross-section	2 6 mm² (16 10 AWG)	
Based on <sub>IN</sub>	12.9 kW		,	
Based on <sub>IH</sub>	10.9 kW	PE connection	M5 screw	
Rated pulse frequency	4.00 kHz	Max. motor cable length		
Current carrying capacity		Shielded	50 m (164 ft)	
DC link busbars <sup>3)</sup>	100 A	Unshielded	75 m (246 ft)	
24 V busbars <sup>4)</sup>	20 A			
DC link capacitance	390 μF	Standards		
Output frequency for servo control 5)	650 Hz	Compliance with standards	CE, cULus	
Output frequency for V/f control <sup>6)</sup>	600 Hz	Safety Integrated	SIL 2 acc. to IEC 61508, PL d acc. to EN ISO 13849-1, Category 3 acc. to EN ISO 13849-1	
Output frequency for vector control <sup>7)</sup>	300 Hz			



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Mechanical data		General te	General tech. specifications	
Line side		Sound pressure level (1m)	68.0 dB	
Width	50.00 mm (1.97 in)	Power loss, typ./max. <sup>9)</sup>	0.19 kW / 0.19 kW	
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	4.7 kg (10.36 lb)			

- 1) Rated dc link current for dimensioning an external DC connection
- 2) Rated output of a typical standard asynchronous motor at 400 V 3 AC
- 3) 200 A possible with reinforced DC link bridges (accessory).
- 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).
- 5) With rated output current (max. output frequency 1300 Hz at a current controller cycle of 62.5 µs, pulse frequency 8 kHz, 60 % permissible output current). Observe the dependency between max. output frequency and current derating. At present, the output f requency is limited to 550 Hz, the values stated apply with the high output frequency license
- 6) Observe the dependency between max. output frequency and current derating. At present, the output frequency is limited to 550 Hz, the values stated apply with the high output frequency license.
- 7) Observe the dependency between max. output frequency and current derating.
- 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