

## **MLFB-Ordering data**

6SL3420-1TE13-0AA1



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

Rated da	ta	Ambier	nt 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.	0.85 A	Cooling <sup>8)</sup>	Internal air cooling	
DC-link current I <sub>d</sub>	3.6 A	Cooling air requirement	0.008 m³/s	
Output current		Ambient temperature		
Rated value I <sub>N</sub>	3.0 A	During operation	0 40 °C (32 104 °F)	
Base load current I <sub>H</sub>	2.6 A	Con	nections	
For S6 duty (40%) I <sub>S6</sub>	3.5 A	Motor end		
I <sub>max</sub>	9.0 A	Version	connector (X1) with Screw-type	
Type rating <sup>2)</sup>		Conductor cross-section	0 6 mm² (24 10 AWG)	
Based on <sub>IN</sub>	1.6 kW		` ′	
Based on <sub>IH</sub>	1.4 kW	PE connection  Shield connecting kit	M5 screw  Integrated connection plug (X1)	
Rated pulse frequency	8.00 kHz	Max. motor cable length		
Current carrying capacity		Shielded	50 m (164 ft)	
DC link busbars	100 A	Unshielded	75 m (246 ft)	
24 V busbars <sup>4)</sup>	20 A			
DC link capacitance	110 μF	Standards		
Output frequency for servo control <sup>5)</sup>	0 650 Hz	Compliance with standards	CE / UL	
Output frequency for V/f control <sup>6)</sup>	0 600 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>	0 300 Hz			



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Mechanical data		General te	General tech. specifications	
side		Sound pressure level (1m)	60.0 dB	
th	50.00 mm (1.97 in)	Power loss, typ. <sup>9)</sup>	0.07 kW	
jht	270.00 mm (10.63 in)			
th	226.00 mm (8.90 in)			
e of protection	IP20 / UL open type			
of construction	Booksize Compact			
weight	2.7 kg (5.95 lb)			

- 5) 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.
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- 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

<sup>2)</sup> Rated output of a typical standard asynchronous motor at 400 V 3 AC

<sup>4)</sup> 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).