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Data sheet for distributed S120M drive

Article No. : 6SL3532-6DF71-0RA1



Figure similar

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

Item no. :
Consignment no. :
Project :

Synchronous motor	
Shaft height	36
Rated speed	3,000 rpm
Speed max.	9,000 rpm
Rated torque	0.8 Nm
Torque, max.	3 Nm
Static torque	1 Nm
Static current	1.4 A
Moment of inertia	0.000000 kgm² (0.002000 lbft²)
Shaft torsional stiffness	4,100 Nm/rad

Vibrational load in operation	
acc. to IEC 68-2-6, DIN EN 60721 Part 3-0 and Part 3-3	
Class	Class 3M3
Deflection	Constant deflection 1,5 mm
Frequency range of the constant deflection	2 ... 9 Hz
Acceleration	constant acceleration 0,5 x g
Frequency range of the constant acceleration	10 ... 200 Hz

Shock load in operation	
acc. to DIN EN 60721 Part 3-0 and Part 3-3	
Class	Class 3M3
Acceleration	peak acceleration, max.: 7 × g
Shock duration	22 ms

Motor Module	
Electronics power supply	48 V
Maximum power consumption of the electronics power supply	12 W
Brake power consumption	10 W
Rated DC link voltage	600 V
DC link voltage	510 ... 720 V
Output voltage	0 ... 0.717 x DC link voltage
Overvoltage trip	820 V +2/-2 %
Undervoltage trip	380 V +2/-2 %
Current carrying capacity of the DC link	25 A
DC link capacitance	8 µF
Pulse frequency	4 kHz
Output current	
Rated value	1.2 A
Base load current	1.1 A
S6 current 40 %	1.7 A
Peak load current	4.5 A
Maximum surface temperature	100 °C (212 °F)

Encoder	
Resolution within one revolution	20 bit
Traversing range (multiturn)	4096 rpms

Mechanical data	
Degree of protection	IP54
Type of construction	IM B5, IM V1, IM V3
Net weight	4.1 kg (9.04 lb)
Sound pressure level[1)]	55 dB

Ambient conditions	
Cooling method	Surface convection
Ambient temperature in operation	-15 ... 40 °C (5 ... 104 °F)
Installation altitude	1,000 m (3,280.84 ft)

[1)] According to ISO 1680, Max. tolerance +3 dB

Subject to change. Calculated values may differ from nameplate ratings. © Copyright Siemens