SIEMENS

Data sheet for SIMOTICS M-1PH3

Figure similar

Article No. : 1PH3101-1DF02-2KA0

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

Item no. :
Consignment no. :
Project :

Engineering data

Winding version	Star connection
Rated power	3.7 kW
Rated speed	1,500 rpm
Rated torque	24 Nm
Rated current	12.0 A
Rated voltage	275 V
Maximum speed	12,000 rpm
Maximum current	24.0 A
Power for duty type S6-40%, maximum	4.8 kW
Standstill current for duty type S6-40%, maximum	16.0 A
Power for duty type S6-25%, maximum	5.6 kW
Standstill current for duty type S6-25%, maximum	18.0 A
Power for duty type S6-15%, maximum	7.4 kW
Standstill current for duty type S6-15%, maximum	24.0 A
Field weakening speed, max.	7,000 rpm
Line frequency	52.5 Hz

Mechanical data

Motor type	Induction motor
Shaft height	100
Cooling	Fan
Vibration severity grade	SR
Shaft and flange accuracy	R
Radial runout tolerance	0.03 mm
Concentricity tolerance	0.05 mm
Axial runout tolerance	0.05 mm
Type of the bearing	Performance
Bearing replacement interval (recommended)	12,000 h
Design acc. to Code I	IM B5 / IM V1
Degree of protection	IP55
	Dust-tight and splash-proof during motor operation
Color	Anthracite 614
Shaft end	Shaft with key (half-key balancing)
Sound pressure level (1m)	73 dB
Thermal class	H
Mounting type	Flange mounting
Encoder system	Incremental encoder, 22-bit, with commutation position

Ambient conditions

Ambient temperature	
Operation	-15 ... 40 °C
	(without power derating)
Storage	-20 ... 65 °C

Relative humidity	
Max. operation	90 %
Bearing, max.	95 %

Physical constants

Moment of inertia	kgcm²