



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1DC25-2BD1

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

Item no. :
Consignment no. :
Project :

Engineering data

		P _N [kW]	M _N [Nm]	I _N [A]	U _N [V]	f _N [Hz]	n _N [rpm]	M _{max} [Nm]	I _{max} [A]	n _{max} [rpm]	M ₀ [Nm]	I ₀ [A]	η	cos φ	I _μ [A]
Y	ALM 400V	49.0	585.0	99.0	360	27.4	800	1,170	198.0	5,000	585.0	99	0.904	0.880	44.0
	BLM/SLM 400V	43.0	587.0	97.0	330	23.9	700	1,173	194.0	5,000	587.0	97	0.898	0.860	49.0
	ALM/BLM/SLM 480V	61.0	583.0	98.0	450	34.0	1,000	1,165	196.0	5,000	583.0	98	0.920	0.870	44.0

Mechanical data	
Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Water cooling
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM V15 with A450 flange
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Cooling water specification	
pH value	6 ... 9
Total hardness	1.7 mmol/l
Electrical conductivity	2,000 μS/cm
Chloride ions	250 mg/l
Sulfate ions	240 mg/l
Nitrate ions	50 mg/l
Dissolved substances	340 mg/l
Maximum particle size	100 μm
Antifreeze/corrosion protection	20 ... 30 %

¹⁾ at a rated frequency of 2 kHz or 4 kHz and a speed range of up to 5000 rpm

Physical constants	
Thermal time constant	28 min
Moment of inertia	6,520 kgcm ²
Weight (approx.)	410 kg

Connection	
Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	DE
Signal connection	right
Terminal box designation	1XB7322-P05

Cooling data and sound pressure level	
Flow rate, min.	15 l/min
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	70 dB ¹⁾
Pressure drop	0.7 bar
NDE thread connection	0.375 Inches