



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1MF20-2LC1

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	111.0	606.0	200.0	385	59.3	1,750	1,211	400.0	7,500	606.0	200	0.939	0.890	85.0
	BLM/SLM 400V	93.0	592.0	198.0	330	51.0	1,500	1,184	396.0	7,500	592.0	198	0.935	0.880	85.0
	ALM/BLM/SLM 480V	126.0	602.0	200.0	445	67.3	2,000	1,203	400.0	7,500	602.0	200	0.943	0.870	89.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Water cooling
Vibration severity grade	SR/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B3 (IM B6, IM B7, IM B8, IM V6)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Performance
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder sin/cos 1Vpp 2048 S/R with C- and D-Spur, 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	NDE
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