



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8228-2ED00-2BA2

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	129.0	1,071.0	260.0	311	77.0	1,150	4,000	1,000.0	3,500	1,180.0	284	0.969	0.000	0.0
	BLM/SLM 400V	113.0	1,079.0	265.0	271	67.0	1,000	4,000	1,000.0	3,500	1,180.0	284	0.968	0.000	0.0
	ALM/BLM/SLM 480V	151.0	1,068.0	260.0	364	90.0	1,350	4,000	1,000.0	3,500	1,180.0	284	0.968	0.000	0.0

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	225
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	R/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	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	Absolut encoder EnDat 2048 S/R, max. encoder speed = 12000 rpm

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3500 rpm

Physical constants

Thermal time constant	28 min
Moment of inertia	20,200 kgcm ²
Weight (approx.)	810 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	1XB7422-P06

Cooling data and sound pressure level

Airflow, min.	0.31 m ³ /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	650 Pa

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10% 2.0 ... 2.3 A