



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8224-4FF00-2AB1-Z**
U63

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	117.0	638.0	235.0	315	117.0	1,750	2,400	900.0	3,100	708.0	256	0.965	0.00	0.0
	BLM/SLM 400V	101.0	643.0	235.0	271	100.0	1,500	2,400	900.0	3,100	708.0	256	0.965	0.00	0.0
	ALM/BLM/SLM 480V	118.0	563.0	210.0	355	133.0	2,000	2,400	900.0	3,100	708.0	256	0.963	0.00	0.0

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	225
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP55
Design acc. to Code I	IM B3 (IM B6, IM B7, IM B8)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft extension	Feather key with half key balancing
Encoder system	Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	23 min
Moment of inertia with brake	13,310 kgcm ²
Weight with brake (approx.)	668 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	left
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

Holding brake

Holding torque	1,600 Nm
Moment of inertia	510 kgcm ²
Power supply voltage	AC 230 V ± 10%
Coil current	2.7 A
Permissible brake work	210 kJ
Speed (Emergency Stop)	2,800 rpm
Number of emergency stops	1,200
Number of emergency stops per hour	3
Opening time	300 ms
Closing time	100 ms

Special design

U63 Holding brake 230V with microswitch and manual relieve lever

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