

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8224-1HF13-2BA2

Figure similar

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

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	μ [A]
Y	ALM 400V	110.0	600.0	198.0	395	58.9	1,750	1,550	485.0	4,500.0	600.0	198	0.956	0.85	87.0
	BLM/SLM 400V	95.0	605.0	200.0	340	50.5	1,500	1,550	485.0	4,500.0	605.0	200	0.953	0.85	87.0
	ALM/BLM/SLM 480V	124.0	592.0	196.0	460	67.2	2,000	1,550	485.0	4,500.0	592.0	196	0.957	0.83	90.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
Cooling	Forced ventilation NDE -> DE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B35 with A550 flange (IM V35)
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	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants

Thermal time constant	49 min
Moment of inertia	1.48 kgm ²
Weight (approx.)	610 kg

Connection

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

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

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

1、ALM 400V:
根据 $n=60f/p$, 则 $p=60f/n=60*58.9/1750=2.02$,
考虑滑差后取极对数 $p=2$, 即四极电机。

2、BLM/SLM 400V:
根据 $n=60f/p$, 则 $p=60f/n=60*50.5/1500=2.02$,
考虑滑差后取极对数 $p=2$, 即四极电机。

3、ALM/BLM/SLM 480V:
根据 $n=60f/p$, 则 $p=60f/n=60*67.2/2000=2.02$,
考虑滑差后取极对数 $p=2$, 即四极电机。