SIEMENS

Data sheet for SIMOTICS M-1PH8

| Article No. : | **1PH8224-1HF30-2BA2-Z** |
| | K40 |

Figure similar

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	Iμ [A]
	ALM 400V	**165.0**	**900.0**	**285.0**	**395**	**59.2**	**1,750**	**1,550**	**490.0**	**4,500**	**900.0**	**285**	**0.946**	**0.890**	**84.0**
Y	BLM/SLM 400V	142.0	904.0	290.0	340	50.8	1,500	1,550	490.0	4,500	904.0	290	0.942	0.890	84.0
	ALM/BLM/SLM 480V	178.0	850.0	265.0	460	67.4	2,000	1,550	490.0	4,500	850.0	265	0.952	0.880	88.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
Cooling	Open circuit cooling DE-> NDE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP23
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	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants

Thermal time constant	21 min
Moment of inertia	14,800 kgcm²
Weight (approx.)	610 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	1XB7700-P02

Cooling data and sound pressure level

Airflow, min.	0.33 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB [1]
Air discharge	axial
Pressure drop	600 Pa

External fan

Max. power consumption

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

Special design

K40	Regreasing system

[1] at a rated frequency of 2 kHz and a speed range of up to 2000 rpm