

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8184-1FD10-2BB1-Z**
K40+L27+L75+V92



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	I _μ [A]
Y	ALM 400V	44.0	365.0	86.0	390	39.0	1,150	925	205.0	5,000.0	365.0	86	0.928	0.82	42.0
	BLM/SLM 400V	39.0	372.0	87.0	340	34.0	1,000	925	205.0	5,000.0	372.0	87	0.920	0.83	42.0
	ALM/BLM/SLM 480V	50.0	354.0	84.0	450	45.7	1,350	925	205.0	5,000.0	354.0	84	0.936	0.82	41.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
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 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 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	22 min
Moment of inertia	0.489 kgm ²
Weight (approx.)	350 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	left
Signal connection	DE
Terminal box designation	1XB7322-P05

Cooling data and sound pressure level

Airflow, min.	0.17 m ³ /s
Sound pressure level L _{pA} (1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	550 Pa

Special design

K40	Regreasing system
L27	Insulated NDE bearing
L75	Special fan 3 AC 400 V in degree of protection IP65
V92	1PH7184-1PL6184-compatible shaft extension 60 mm x 140 mm

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 5000 rpm