



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8184-1JB00-1AA2-Z**
K10+K85

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	20.5	392.0	49.0	335	17.4	500	925	124.0	5,000	392.0	49	0.861	0.840	23.0
	BLM/SLM 400V	16.3	389.0	49.0	271	14.1	400	925	124.0	5,000	389.0	49	0.834	0.850	23.0
	ALM/BLM/SLM 480V	25.0	389.0	49.0	410	20.7	600	925	124.0	5,000	398.0	49	0.882	0.810	26.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
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, 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 full key balancing
Encoder system	Incremental encoder HTL 2048 S/R, max. encoder speed = 4600 rpm

Physical constants

Thermal time constant	22 min
Moment of inertia	4,890 kgcm ²
Weight (approx.)	350 kg

Connection

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

Cooling data and sound pressure level

Airflow, min.	0.17 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	550 Pa

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10% 1.1 ... 1.3 A

Special design

K10 Terminal box NDE left

K85 Terminal box rotated through +180 degrees

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