



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8165-1HF03-1GA1-Z
K24

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	41.0	224.0	76.0	400	59.1	1,750	630	206.0	6,500	304.0	95	0.934	0.88	25.8
	BLM/SLM 400V	37.0	236.0	78.0	350	50.8	1,500	630	206.0	6,500	304.0	95	0.926	0.88	27.0
	ALM/BLM/SLM 480V	45.0	215.0	75.0	440	67.5	2,000	630	206.0	6,500	304.0	95	0.936	0.89	23.6

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	160
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B35 (IM V15, IM V35)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Primer (pale green)
Type of the bearing	Standard
Shaft extension	Feather key with full key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants

Thermal time constant	35 min
Moment of inertia	2,320 kgcm ²
Weight (approx.)	230 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk863

Cooling data and sound pressure level

Airflow, min.	0.16 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	200 Pa

Special design

K24 Primer

¹⁾ at a rated frequency of 4 kHz and a speed range of up to 5000 rpm