



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8163-1DF13-0LA1

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	34.0	186.0	70.0	366	59.2	1,750	600	217.0	9,000	252.0	87	0.926	0.870	24.6
	BLM/SLM 400V	30.0	191.0	71.0	319	50.8	1,500	600	217.0	9,000	252.0	87	0.923	0.870	25.6
	ALM 480V	40.7	177.0	68.0	456	74.2	2,200	600	217.0	9,000	252.0	87	0.940	0.880	24.6
	BLM/SLM 480V	37.0	177.0	68.0	416	67.4	2,000	600	217.0	9,000	252.0	87	0.932	0.860	24.6

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	160
Cooling	Forced ventilation NDE -> DE
Vibration severity grade	SPECIAL/B
Shaft and flange accuracy	SPECIAL
Degree of protection	IP55
Design acc. to Code I	IM B35 (IM V15, IM V35)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Performance
Shaft end	Plain shaft
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.16 A
3 AC 400 V / 60 Hz (±10%)	0.21 A
3 AC 480 V / 60 Hz (±10%)	0.21 A

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

Physical constants

Thermal time constant	35 min
Moment of inertia	2,160 kgcm ²
Weight (approx.)	196 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