

Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8163-1MF13-0BC2

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	6,500	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	6,500	252.0	87	0.923	0.870	25.6
	ALM/BLM/SLM 480V	37.0	177.0	68.0	416	67.4	2,000	600	217.0	6,500	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	R/A
Shaft and flange accuracy	R
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	Standard with fixed bearing
Shaft end	Plain shaft
Encoder system	Incremental encoder sin/cos 1Vpp 2048 S/R with C- and D-Spur, max. encoder speed = 12000 rpm

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.17 A
3 AC 400 V / 60 Hz (±10%)	0.22 A
3 AC 480 V / 60 Hz (±10%)	0.22 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

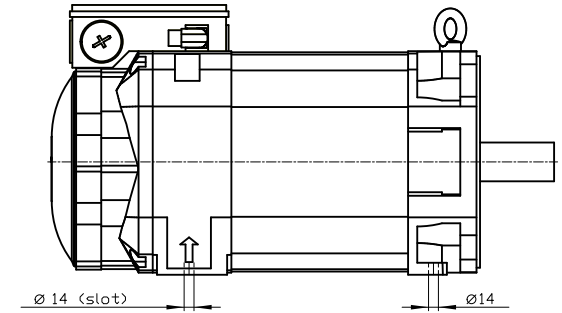
Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	NDE
Signal connection	left
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

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Type of construction IM B35 (IM V15, IM V35)		/ Type of protection: IP55	
		—	
		—	
Terminal box	gk863	1PH8163-1MF13-0BC2	
Weight	196 kg		
Unit	mm (in)		
Date	5/2/23		
SIEMENS AG		—	
not toleranced dimensions: ± 1		DT	