



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8107-1DF00-1GC1-Z
K10

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	10.0	55.0	22.0	380	60.4	1,750	135	54.0	9,000	63.0	25	0.878	0.800	10.9
	BLM/SLM 400V	9.0	57.0	23.5	330	52.2	1,500	135	54.0	9,000	63.0	25	0.869	0.810	10.8
	ALM/BLM/SLM 480V	11.0	53.0	21.5	428	68.6	2,000	135	54.0	9,000	63.0	25	0.901	0.790	10.8

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
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 B3 (IM V5, 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 full key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	20 min
Moment of inertia	289 kgcm²
Weight (approx.)	73 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE left
Power connection	NDE
Signal connection	below
Terminal box designation	gk823

Cooling data and sound pressure level

Airflow, min.	0.04 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	110 Pa

Special design

K10 Terminal box NDE left

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