

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8186-1AF43-2AA2-Z**
G14+K10+K83+L76+X91



Figure similar

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	125.0	682.0	225.0	385	59.2	1,750	1,230	400.0	5,000	682.0	225	0.942	0.880	80.0
	BLM/SLM 400V	108.0	688.0	225.0	330	50.9	1,500	1,230	400.0	5,000	688.0	225	0.936	0.890	79.0
	ALM/BLM/SLM 480V	135.0	645.0	210.0	445	67.5	2,000	1,230	400.0	5,000	645.0	210	0.948	0.870	83.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Open circuit cooling NDE-> DE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP23
Design acc. to Code I	IM B35 with A450 flange (IM V35)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Iron gray RAL 7011
Type of the bearing	Standard
Shaft extension	Feather key with half key balancing
Encoder system	Without encoder

Physical constants

Thermal time constant	29 min
Moment of inertia	6,520 kgcm ²
Weight (approx.)	422 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE left
Power connection	below
Signal connection	DE
Terminal box designation	1XB7422-P06

Cooling data and sound pressure level

Airflow, min.	0.21 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	450 Pa

Special design

G14	with air filter
K10	Terminal box NDE left
K83	Terminal box rotated through +90 degrees
L76	EC fan 400 V 3 AC 50/60 Hz
X91	Paint finish: Iron gray RAL 7011

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3000 rpm