



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8284-1ED12-2AW2-Z
G00+K23+X53+Y84

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]
Δ	ALM 400V	170.0	1,414.0	310.0	400	38.6	1,150	4,150	870.0	3,300	1,414.0	310	0.960	0.820	157.0
	BLM/SLM 400V	150.0	1,433.0	315.0	335	33.7	1,000	4,150	870.0	3,300	1,433.0	315	0.958	0.850	143.0
	ALM/BLM/SLM 480V	200.0	1,416.0	315.0	460	45.3	1,350	4,150	870.0	3,300	1,416.0	315	0.962	0.830	151.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
Cooling	Forced ventilation NDE -> DE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP55
Design acc. to Code I	IM B5 with A660 flange (IM V3)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Light gray RAL 7035
Type of the bearing	Standard
Shaft extension	Feather key with half key balancing
Encoder system	Absolut encoder EnDat 2048 S/R, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	47 min
Moment of inertia	42,000 kgcm ²
Weight (approx.)	1,200 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	1XB7700-P02

Cooling data and sound pressure level

Airflow, min.	0.42 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	74 dB ¹⁾
Air discharge	radial
Pressure drop	600 Pa

Special design

G00	Separately-driven fan NDE left, air intake NDE
K23	Special paint finish worldwide
X53	Paint finish: Light gray RAL 7035
Y84	Customer specifications on rating plate:

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3300 rpm