



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8284-1FD10-1BW1-Z
G02+K23+X19

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	0.82	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	0.85	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	0.83	151.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
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 B3 (IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Pure orange RAL 2004
Type of the bearing	Standard
Shaft extension	Feather key with full key balancing
Encoder system	Absolut encoder 22 bit Singleturn + 12 bit Multiturn, 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

- G02 Separately-driven fan NDE right, air intake NDE
- K23 Special paint finish worldwide
- X19 Paint finish: Pure orange RAL 2004

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