



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8228-2FC00-0BA1-Z
K09+K84

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	l _μ [A]
Y	ALM 400V	91.0	1,086.0	198.0	290	53.0	800	4,000	750.0	3,500	1,180.0	213	0.967	0.00	0.0
	BLM/SLM 400V	80.0	1,091.0	200.0	254	47.0	700	4,000	750.0	3,500	1,180.0	213	0.965	0.00	0.0
	ALM/BLM/SLM 480V	113.0	1,079.0	198.0	361	67.0	1,000	4,000	750.0	3,500	1,180.0	213	0.968	0.00	0.0

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	225
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 B6, IM B7, IM B8, IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft extension	Plain shaft
Encoder system	Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	28 min
Moment of inertia	20,200 kgcm ²
Weight (approx.)	810 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE right
Power connection	below
Signal connection	DE
Terminal box designation	1XB7322-P05

Cooling data and sound pressure level

Airflow, min.	0.31 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	650 Pa

Special design

- K09 Terminal box NDE right
- K84 Terminal box rotated through -90 degrees

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3500 rpm