



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8184-1DC40-1BA1

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	45.0	537.0	91.0	365	27.8	800	925	168.0	5,000	537.0	91	0.872	0.90	28.0
	BLM/SLM 400V	40.0	546.0	94.0	320	24.5	700	925	168.0	5,000	546.0	94	0.852	0.90	27.0
	ALM/BLM/SLM 480V	57.0	544.0	90.0	460	34.4	1,000	925	168.0	5,000	544.0	90	0.896	0.89	30.0

Mechanical data	
Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Open circuit cooling NDE-> DE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP23
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	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	26 min
Moment of inertia	4,890 kgcm ²
Weight (approx.)	350 kg

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

Cooling data and sound pressure level	
Airflow, min.	0.21 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	450 Pa

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