

Data sheet for SIMOTICS M-1PH8

Article No.: 1PH8105-1DF00-2BH1-Z

X01



Client order no. : Order no. : Offer no. : Remarks : Item no. : Consignment no. : Project :

Engineering data

		P _N [kW]	M _N [Nm]	I _N	U _N [V]	f _N [Hz]	n _N [rpm]	M _{max} [Nm]	I _{max} [A]	n _{max} [rpm]	M ₀ [Nm]	l ₀ [A]	η	cos φ	Ιμ [A]
Υ	ALM 400V	8.0	44.0	17.5	400	60.2	1,750	95	38.0	9,000	52.0	20	0.878	0.78	8.8
	BLM/SLM 400V	7.0	45.0	17.5	348	51.9	1,500	95	38.0	9,000	52.0	20	0.867	0.79	8.8
	ALM/BLM/SLM 480V	9.0	43.0	17.0	453	68.5	2,000	95	38.0	9,000	52.0	20	0.911	0.78	8.7

Mechanical data					
Motor type	Squirrel cage asynchronous motor				
Shaft height	100				
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 V5, IM V6)				
Temperature monitoring	Pt1000 temperature sensor in the stator winding				
Color	Jet black, matt RAL 9005				
Type of the bearing	Standard with fixed bearing				
Shaft extension	Feather key with half key balancing				
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm				

Physical constants			
Thermal time constant	20 min		
Moment of inertia	252 kgcm²		
Weight (approx.)	65 kg		

 $^{^{\}rm 1)}{\rm at}$ a rated frequency of 4 kHz and a speed range of up to 5000 rpm

Connection				
Type of electrical connection	Power connector			
Position of the connection	Power connector, top			
Power connection	DE			
Signal connection	left			
Cooling data and sound pressure level				

Cooling data and sound pressure level				
Airflow, min.	0.04 m³/s			
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾			
Air discharge	axial			
Pressure drop	110 Pa			

Special design

X01 Paint finish: Jet black, matt RAL 9005