

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8288-1HC40-2AU1-Z
M83



Figure similar

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	310.0	3,701.0	560.0	370	27.2	800	6,450	970.0	3,300.0	3,701.0	560	0.945	0.91	164.0
	BLM/SLM 400V	272.0	3,711.0	570.0	325	23.9	700	6,450	970.0	3,300.0	3,711.0	570	0.939	0.91	161.0
	ALM/BLM/SLM 480V	385.0	3,677.0	560.0	460	33.9	1,000	6,450	970.0	3,300.0	3,677.0	560	0.953	0.91	164.0

Mechanical data	
Motor type	Squirrel cage asynchronous motor
Shaft height	280
Cooling	Open circuit cooling NDE-> DE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP23
Design acc. to Code I	IM B3 (IM V6)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft extension	Feather key with half key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants	
Thermal time constant	22 min
Moment of inertia	6.3 kgm²
Weight (approx.)	1,650 kg

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

Cooling data and sound pressure level	
Airflow, min.	0.52 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	
M83	Additional back-of threads on motor feet

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 2800 rpm