



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8286-1HC10-1BX2-Z**  
K85

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

### Engineering data

		P <sub>N</sub> [kW]	M <sub>N</sub> [Nm]	I <sub>N</sub> [A]	U <sub>N</sub> [V]	f <sub>N</sub> [Hz]	n <sub>N</sub> [rpm]	M <sub>max</sub> [Nm]	I <sub>max</sub> [A]	n <sub>max</sub> [rpm]	M <sub>0</sub> [Nm]	I <sub>0</sub> [A]	η	cos φ	I <sub>μ</sub> [A]
Δ	ALM 400V	155.0	1,850.0	285.0	385	27.0	800	5,250	800.0	3,300	1,850.0	285	0.955	0.850	133.0
	BLM/SLM 400V	138.0	1,883.0	295.0	325	23.7	700	5,250	800.0	3,300	1,883.0	295	0.949	0.870	121.0
	ALM/BLM/SLM 480V	185.0	1,767.0	280.0	460	33.7	1,000	5,250	800.0	3,300	1,767.0	280	0.960	0.860	122.0

### 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	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Feather key with full key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

### Physical constants

Thermal time constant	50 min
Moment of inertia	52,000 kgcm <sup>2</sup>
Weight (approx.)	1,400 kg

### Connection

Type of electrical connection	Terminal box
Position of the connection	DE top
Power connection	left
Signal connection	DE
Terminal box designation	1XB7700-P02

### Cooling data and sound pressure level

Airflow, min.	0.42 m <sup>3</sup> /s
Sound pressure level L <sub>pA</sub> (1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	74 dB <sup>1)</sup>
Air discharge	radial
Pressure drop	600 Pa

### External fan

#### Max. power consumption

3 AC 380 ... 480 V (-5% / +10%)  
50/60 Hz ±10% 0.75 ... 0.90 A

### Special design

K85 Terminal box rotated through +180 degrees

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