



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8286-1DF40-0BU1-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	445.0	2,429.0	730.0	400	58.9	1,750	4,500	1,360.0	3,300	2,429.0	730	0.962	0.920	178.0
	BLM/SLM 400V	382.0	2,432.0	730.0	345	50.6	1,500	4,500	1,360.0	3,300	2,432.0	730	0.959	0.920	177.0
	ALM/BLM/SLM 480V	500.0	2,387.0	720.0	455	67.2	2,000	4,500	1,360.0	3,300	2,387.0	720	0.963	0.920	178.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
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 V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Plain shaft
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	52,000 kgcm <sup>2</sup>
Weight (approx.)	1,400 kg

### Connection

Type of electrical connection	Terminal box
Position of the connection	NDE right
Power connection	top
Signal connection	NDE
Terminal box designation	1XB7712-P03

### Cooling data and sound pressure level

Airflow, min.	0.52 m <sup>3</sup> /s
Sound pressure level LpA(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 2800 rpm