



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8133-1DF20-0DF1

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]	$\eta$	$\cos \phi$	$I\mu$ [A]
Y ALM 400V	19.5	106.0	38.0	403	59.8	1,750	240	85.0	8,000	136.0	45	0.913	0.850	14.9
Y BLM/SLM 400V	17.0	108.0	38.0	345	51.5	1,500	240	85.0	8,000	136.0	45	0.883	0.860	14.2
Y ALM/BLM/SLM 480V	22.5	107.0	38.0	452	68.2	2,000	240	85.0	8,000	136.0	45	0.938	0.860	14.4

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
Cooling	Water cooling
Vibration severity grade	SR/A
Shaft and flange accuracy	R
Degree of protection	IP65
Design acc. to Code I	IM B3 (IM V5, IM V6, IM B6, IM B7, IM B8)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard with fixed bearing
Shaft end	Plain shaft
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

### Cooling water specification

pH value	6 ... 9
Total hardness	1.7 mmol/l
Electrical conductivity	500 $\mu$ S/cm
Chloride ions	40 mg/l
Sulfate ions	50 mg/l
Nitrate ions	50 mg/l
Dissolved substances	340 mg/l
Maximum particle size	100 $\mu$ m
Antifreeze/corrosion protection	20 ... 30 %

<sup>1)</sup> at a rated frequency of 4 kHz and a speed range of up to 5000 rpm

### Physical constants

Thermal time constant	12 min
Moment of inertia	760 kgcm <sup>2</sup>
Weight (approx.)	123 kg

### Connection

Type of electrical connection	Power connector
Position of the connection	Power connector, top
Power connection	left
Signal connection	DE

### Cooling data and sound pressure level

Flow rate, min.	12 l/min
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	68 dB <sup>1)</sup>
Pressure drop	0.9 bar
NDE thread connection	0.375 Inches