



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8133-1FF13-1BB1-Z**  
K10

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	17.5	96.0	34.0	392	59.7	1,750	240	85.0	8,000	126.0	42	0.913	0.85	13.6
	BLM/SLM 400V	15.0	96.0	34.0	342	51.3	1,500	240	85.0	8,000	126.0	42	0.899	0.85	14.2
	ALM/BLM/SLM 480V	20.0	95.0	34.0	445	68.2	2,000	240	85.0	8,000	126.0	42	0.933	0.85	13.5

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
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 B35 (IM V15, IM V35)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard with fixed bearing
Shaft extension	Feather key with full key balancing
Encoder system	Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm

### Physical constants

Thermal time constant	30 min
Moment of inertia	760 kgcm <sup>2</sup>
Weight (approx.)	106 kg

### Connection

Type of electrical connection	Terminal box
Position of the connection	NDE left
Power connection	below
Signal connection	DE
Terminal box designation	gk843

### Cooling data and sound pressure level

Airflow, min.	0.09 m <sup>3</sup> /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB <sup>1)</sup>
Air discharge	axial
Pressure drop	140 Pa

### Special design

K10 Terminal box NDE left

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