

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8165-1DF03-1BC1-Z  
K18



Figure similar

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

### 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]
Y	ALM 400V	41.0	224.0	76.0	400	59.1	1,750	630	206.0	6,500.0	304.0	95	0.934	0.88	25.8
	BLM/SLM 400V	37.0	236.0	78.0	350	50.8	1,500	630	206.0	6,500.0	304.0	95	0.926	0.88	27.0
	ALM/BLM/SLM 480V	45.0	215.0	75.0	440	67.5	2,000	630	206.0	6,500.0	304.0	95	0.936	0.89	23.6

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	160
Cooling	Forced ventilation DE -> NDE
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	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

### Physical constants

Thermal time constant	35 min
Moment of inertia	0.232 kgm <sup>2</sup>
Weight (approx.)	230 kg

### Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	NDE
Signal connection	left
Terminal box designation	gk863

### Cooling data and sound pressure level

Airflow, min.	0.16 m <sup>3</sup> /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB <sup>1)</sup>
Air discharge	axial
Pressure drop	200 Pa

### Special design

K18 Radial shaft sealing ring DE

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