



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8286-1HC40-2AU1-Z
G14+K83

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]	η	cos φ	I _μ [A]
Δ	ALM 400V	250.0	2,984.0	435.0	385	27.2	800	5,250	800.0	3,300	2,984.0	435	0.942	0.91	126.0
	BLM/SLM 400V	219.0	2,988.0	455.0	325	23.9	700	5,250	800.0	3,300	2,988.0	455	0.931	0.92	115.0
	ALM/BLM/SLM 480V	310.0	2,961.0	450.0	460	33.9	1,000	5,250	800.0	3,300	2,961.0	450	0.948	0.91	117.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
Cooling	Open circuit cooling NDE-> DE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP23
Design acc. to Code I	IM B3 (IM V6)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft extension	Feather key with half key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants

Thermal time constant	20 min
Moment of inertia	52,000 kgcm ²
Weight (approx.)	1,400 kg

Connection

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

Cooling data and sound pressure level

Airflow, min.	0.52 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	74 dB ¹⁾
Air discharge	radial
Pressure drop	600 Pa

Special design

- G14 with air filter
- K83 Terminal box rotated through +90 degrees

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 2800 rpm