



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1HB30-2AA2

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]
Y	ALM 400V	40.0	764.0	88.0	355	17.5	500	1,230	144.0	5,000	764.0	88	0.850	0.870	38.0
	BLM/SLM 400V	31.5	752.0	88.0	290	14.2	400	1,230	144.0	5,000	752.0	88	0.822	0.870	37.0
	ALM/BLM/SLM 480V	48.0	764.0	88.0	430	20.8	600	1,230	144.0	5,000	764.0	88	0.874	0.840	41.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Open circuit cooling DE-> NDE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP23
Design acc. to Code I	IM B3 (IM B6, IM B7, IM B8, IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3000 rpm

Physical constants

Thermal time constant	29 min
Moment of inertia	6,520 kgcm ²
Weight (approx.)	422 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	1XB7322-P05

Cooling data and sound pressure level

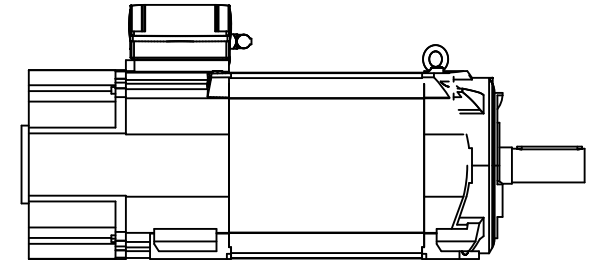
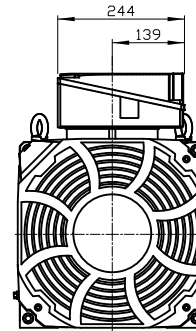
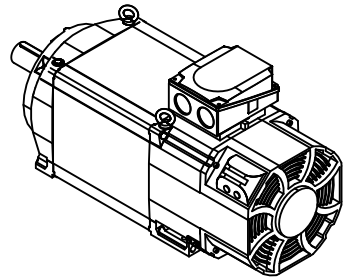
Airflow, min.	0.21 m ³ /s
Sound pressure level L _p A(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	450 Pa

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10%	1.1 ... 1.3 A
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Terminal box		1XB7322-P05	1PH8186-1HB30-2AA2
Weight		422 kg	
Unit		mm [in]	
Date		5/4/23	
SIEMENS AG			
not toleranced dimensions: ± 1		DT	