



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8135-2DG20-2QC1

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	44.3	184.0	80.0	395	76.7	2,300	390	196.0	4,500	196.0	85	0.953	0.000	0.0
	BLM/SLM 400V	39.0	186.0	81.0	346	66.7	2,000	390	196.0	4,500	196.0	85	0.952	0.000	0.0
	ALM/BLM/SLM 480V	50.5	182.0	79.0	452	88.3	2,650	390	196.0	4,500	196.0	85	0.954	0.000	0.0

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	132
Cooling	Water cooling
Vibration severity grade	S/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	Advanced Lifetime
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	5 min
Moment of inertia	750 kgcm ²
Weight (approx.)	138 kg

Connection

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

Cooling data and sound pressure level

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

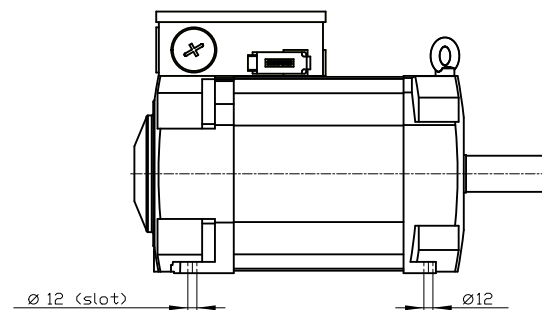
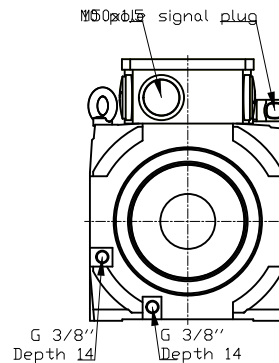
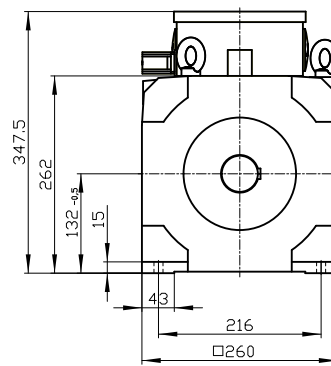
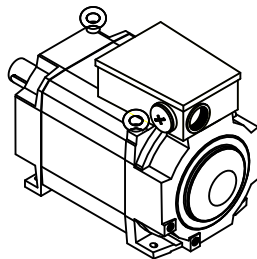
Cooling water specification

pH value	6 ... 9
Total hardness	1.7 mmol/l
Electrical conductivity	500 μS/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 μm
Antifreeze/corrosion protection	20 ... 30 %

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

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A diagram showing a shaded ball of radius 10 on a horizontal surface. A vertical force of 14 is applied downwards at a point on the ball. A horizontal distance of 51.5 is indicated from the center of the ball to the point of application of the force.



Type of construction: IM B3 (IM V5, IM V6, IM B6, IM B7, IM B8) of protection: IP65

			
Terminal box		gk843	1PH8135-2DG20-2QC1
Weight		138 kg	
Unit		mm [in]	
Date		4/18/23	
SIEMENS AG			
not toleranced dimensions: ± 1		DT	