

Dc mind Brush motor

Data sheet

89 850 008

Series

89 850



1 2 x M3 at 180°, depth 5 mm and 32mm diameter

2 2 x holes of 2,75 mm diameter, at 120°, depth 5 mm and 32mm diameter

General characteristics

Motor characteristics at (1)		24 Vdc	
At no load - A			
Speed	rpm	3 750	+10%
Current	A	0,14	
EMC (55022)	class	B	
Life (2)	h	10 000	
At max efficiency - B			
Speed	rpm	3 320	+10%
Torque (4)	mNm	60	
Power output	W	21	
Current	A	1,1	
Efficiency	%	80	
EMC (55022)	class	B	
Life (2)	h	5 000	
At nominal load - C			
Speed	rpm	3 000	+10%
Torque (4)	mNm	110	
Power output	W	35	
Current	A	1,9	
Efficiency	%	76	
EMC (55022)	class	B	
Life (2)	h	4 000	
Others			
Starting torque	mNm	520	
Starting current	A	8,4	
Max. output power	W	51	
Motor parameters (1)			
Allowed speed	rpm	10 000	max
Rated torque	mNm	110	
Electrical time constant	ms	0,7	
Mechanical time constant	ms	12	
Factor torque / speed	mNm/rpm	0,14667	
Dry friction	mNm	4,5	
Viscous friction	mNm/krpm	1,4	
Rotor inertia	gcm ²	160	
Thermal Resistance	°/W	9	
Stator poles		2	
Collector blades		8	
Cogging torque	mNm	8	
Weight (g)	g	620	
Noise level	dBA	35	

Winding parameters (1)			
Torque constant	mNm/A	63	+10%
Constant electromotive force	Volts/(rad/s)	0,063	+10%
	V / Krpm	6,54	+10%
Resistance	Ohms	2,9	+10%
Inductance	mH	2	
Start voltage	Volts	0,7	
Current demagnetization	(magnets at 150 ° C)	A	35

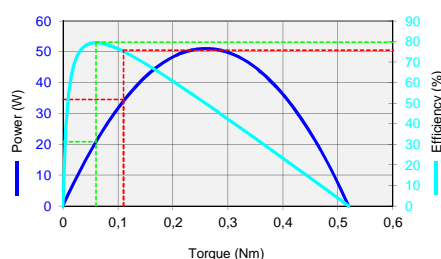
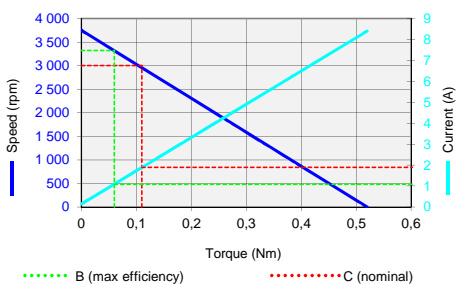
Generic parameters			
Motor for direct current supply			✓
Output shaft with ball bearings			✓
Max. Radial force (20mm from front face)	N		100
Max. axial force(5)	N		70
Temperature range	CEI60068-2-1/2	°C	-30 / 70
Storage temperature		°C	-40 / 100
Dielectric (1min 2mA 50Hz)	CEI60335	Vdc	500
Motor insulation	CEI60085	class	E (120°C)
Enameled wire insulation		class	F (155°C)
Salt spray	CEI60068-2-58	severity	2
Degree of protection	CEI60529	IP	65
EMC			
Electrostatic Discharge	CEI61000-4-2	level	3
Electrical fast transient / burst test	CEI61000-4-4	level	3
Surge test	CEI61000-4-5	level	2
Radiated emission		class	B

Approvals			
Designed in accordance with UL			1004
ROHS	2002/95/CE		✓
EC			✓
Designed for medical machines using the standard			EN60601-1

Values without tolerances, are average production values.

- (1) Cold motor, 20 ° C ambient temperature
- (2) Continuous cycle, one direction
- (3) Continuously rated torque, zero radial and axial loads
- (4) Max torque for continuous operation at 20 ° C, decrease this value for higher ambient temperature
- (5) Pinion or pulley fitting are done at the Crouzet factory, before final assembly.

Curves



Performance / Motor curves (1)			
Voltage supply		Vdc	24
Output data			
Speed	rpm	A	B
Torque (4)	mNm	0	60
Current	A	0,1	1,1
Power output	W	-	21
Efficiency	%	-	80

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