

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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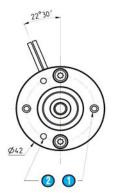
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

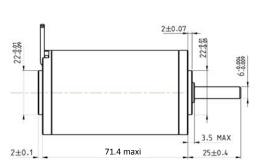
















2 x M3 at 180°, depth 5 mm and 32mm diameter

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

General characteristics

Motor characteristics at (1) 48 Vdc				
At no load - A				
Speed	rpm	4 100 +-10%		
Current	Α	0,07		
Life (2)	h	10 000		
At max efficiency - B				
Speed	rpm	3 400 +-10%		
Torque (4)	mNm	31		
Power output	W	11		
Current	Α	0,35		
Efficiency	%	65		
Life (2)	h	5 000		
At nominal load - C				
Speed	rpm	2 980 +-10%		
Torque (4)	mNm	50		
Power output	W	16		
Current	Α	0,53		
Efficiency	%	61		
Life (2)	h	4 000		
Others				
Starting torque	mNm	180		
Starting current	A	1,7		
Max. output power	W	19		

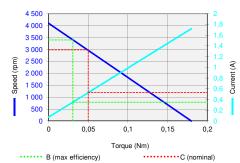
Motor parameters (1)		
Allowed speed	rpm	10 000 max
Rated torque	mNm	50
Electrical time constant	ms	0,8
Mechanical time constant	ms	18
Factor torque / speed	mNm/rpm	0,04464
Dry friction	mNm	3
Viscous friction	mNm/krpm	1
Rotor inertia	gcm ²	75
Thermal Resistance	°/W	10
Stator poles		2
Collector blades		8
Cogging torque	mNm	3
Weight (g)	g	340
Noise level	dBA	35

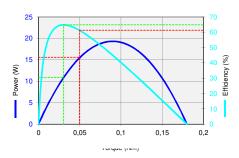
Winding parameters (1)				
Torque constant		mNm/A	109	+-10%
Constant electromotive force		Volts/(rad/s)	0,109	+-10%
		V / Krpm	11,38	+-10%
Resistance		Ohms	28	+-10%
Inductance		mH	22	
Start voltage		Volts	1,4	
Current demagnetization	(magnets at 150 ° C)	A	7	

0			
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 transsient / burst test	CEI61000-4-4	level	3
Surge test	CEI61000-4-5	level	2
Without EMC filter			✓
Approvals			
Designed in accordance with UL			1004
ROHS	2002/95/CE		/
EC			1

Values without tolerences, 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		48	
		Output data			
		Α	В	С	D
Speed	rpm	4 100	3 400	2 980	0
Torque (4)	mNm	0	31	50	180
Current	Α	0,1	0,4	0,5	1,7
Power output	W	-	11	16	-
Efficiency	%	-	65	61	-

Specifications subject to change without notice. Updated february 29, 2012.

