

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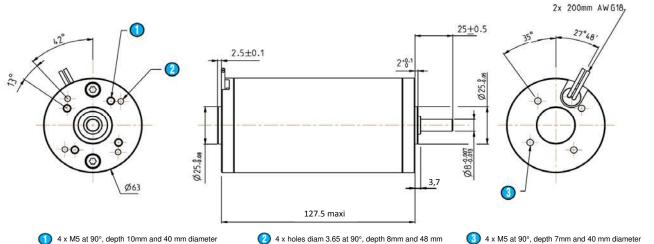
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











General characteristics

Motor characteristics at (1)	90 Vdc	
At no load - A		
Speed	rpm	3 700 +-10%
Current	A	0,09
EMC (55022)	class	В
Life (2)	h	20 000
At max efficiency - B		
Speed	rpm	3 410 +-10%
Torque (4)	mNm	218
Power output	W	78
Current	A	1,03
Efficiency	%	84
EMC (55022)	class	В
Life (2)	h	10 000
At nominal load - C		111
Speed	rpm	3 320 +-10%
Torque (4)	mNm	290
Power output	W	101
Current	A	1.34
Efficiency	%	84
EMC (55022)	class	
Life (2)	h	5 000
Others		
Starting torque	mNm	2 780
Starting current	A	12,1
Max. output power	W	269
Motor parameters (1)		
Allowed speed	rpm	10 000 max
Rated torque	mNm	290
Electrical time constant	ms	1.6
Mechanical time constant	ms	9
Factor torque / speed	mNm/rpm	0,76316
Dry friction	mNm	10
Viscous friction	mNm/krpm	2,4
Rotor inertia	gcm ²	650
Thermal Resistance	°/W	5
Stator poles		2
Collector blades		12
Cogging torque	mNm	9
Weight (g)	g	1 600
Noise level	dBA	35

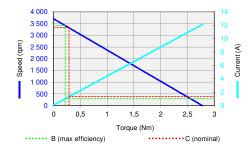
Winding parameters (1)				
Torque constant		mNm/A	232,0	+-10%
Constant electromotive force		Volts/(rad/s)	rad/s) 0,232 +-	
		V / Krpm	24,29	+-10%
Resistance		Ohms	7,4	+-10%
Inductance		mH	12	
Start voltage		Volts	0,6	
Current demagnetization	(magnets at 150 ° C)	Α	28	

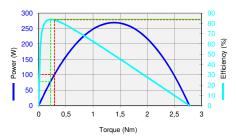
Generic parameters	S			
Motor for direct current supply			1	
Output shaft with ball b	earings			✓
Max. Radial force	(20mm from front f	ace)	N	150
Max. axial force(5)			N	100
Temperature range		CEI60068-2-1/2	°C	-30 / 70
Storage temperature			°C	-40 / 100
Dielectric	(1min 2mA 50Hz)	CEI60335	Vdc	500
Motor insulation		CEI60085	class	E (120°C)
Enameled wire insulati	on		class	F (155°C)
Salt spray		CEI60068-2-58	severity	2
Degree of protection		CEI60529	IP	65
EMC				
Electrostatic Discharge	Э	CEI61000-4-2	level	3
Electrical fast transsie	nt / 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	1
FC		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		Vd	С	90	
	Output data				
	Α	В	С	D	
rpm	3 700	3 410	3 320	0	
mNm	0	218	290	2 780	
Α	0,1	1,0	1,3	12,1	
W	-	78	101	-	
%	-	84	84	-	
	rpm mNm A W	Outpu A 3 700 mNm 0 A 0,1 W -	Vd Qutput data A B rpm 3 700 3 410 mNm 0 218 A 0,1 1,0 W - 78	Vdc Output data A B C rpm 3 700 3 410 3 320 mNm 0 218 290 A 0,1 1,0 1,3 W - 78 101	

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

