



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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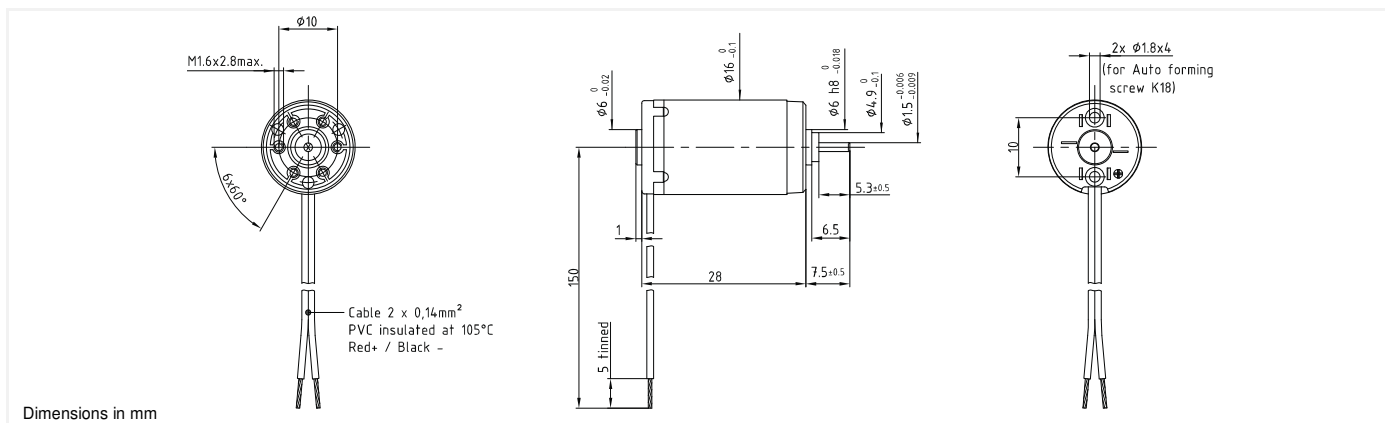


16G88

Precious metal commutation

Ø16mm

5.8 mNm

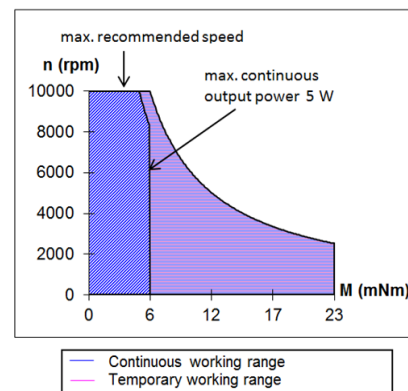


16G88 **** .1

Electrical Data	****	220P	214E	213E	211E	210E	205E	
1 Nominal Voltage	V	3	8	9	12	15	32	Volt
2 No-Load Speed	n_0	11,025	9,250	7,980	8,690	9,000	8,150	rpm
3 No-Load Current	I_0	45.0	10.0	8.0	6.5	5.5	2.0	mA
4 Terminal Resistance	R	0.5	5.4	7.6	13.0	19.5	135.0	Ω
5 Output Power	P_{2max}	4.1	4.2	4.6	4.2	4.2	2.5	W
6 Stall Torque	mNm	16 (2.27)	12.1 (1.72)	12.7 (1.8)	12.1 (1.72)	12.2 (1.73)	8.8 (1.25)	mNm (oz-in)
7 Efficiency	η_{max}	83	84	84	84	84	82	%
8 Max Continuous Speed	$n_{e,max}$	10,000	10,000	10,000	10,000	10,000	10,000	rpm
9 Max Continuous Torque	$M_{e,max}$	5.5 (0.76)	5.3 (0.76)	5.8 (0.83)	5.4 (0.77)	5.4 (0.77)	4.8 (0.68)	mNm (oz-in)
10 Max Continuous Current	$I_{e,max}$	2.20	0.66	0.55	0.42	0.35	0.13	A
11 Back-EMF Constant	k_E	0.27	0.86	1.12	1.37	1.65	3.90	mV/rpm
12 Torque Constant	k_M	2.58	8.20	10.70	13.10	15.80	37.20	mNm/A
13 Motor Regulation	R/k^2	75.1	80.3	66.4	75.75	78.11	97.55	10 ³ /Nms
14 Friction Torque	T_F	0.12 (0.02)	0.08 (0.02)	0.09 (0.02)	0.09 (0.02)	0.09 (0.02)	0.07 (0.01)	mNm (oz-in)
15 Rotor Inductance	L	0.01	0.12	0.15	0.26	0.40	1.70	mH
16 Mechanical Time Constant	t_m	6.0	6.4	5.3	6.1	5.8	7.8	ms
17 Rotor Inertia	J	0.80	0.80	0.80	0.80	0.74	0.80	g.cm ²

General Data				
18 Thermal Resistance (rotor/body)	R_{th1} / R_{th2}		8 / 35	°C/W
19 Thermal Time Constant (rotor/stator)	t_{w1} / t_{w2}		6 / 500	S
20 Operating Temperature Range:	motor		-30°C to 85°C (-22°F to 185°F)	°C (°F)
	rotor		100°C (212°F)	°C (°F)
21 Shaft Load Max.:			With sleeve bearings	
(5mm from bearing)	-radial		1.5 (5.4)	N (oz)
	-axial		100 (359.6)	N (oz)
22 Shaft Play:	-radial		<0.03 (0.0012)	mm (inch)
	-axial		0.15 (0.0059)	mm (inch)
23 Weight	g		24 (0.85)	g (oz)

Execution Table		
Gearbox	Single Shaft	MR2
B16	5	Upon Request
BA16	5	Upon Request
R16	1	Upon Request



V121616