



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!



## Contact us

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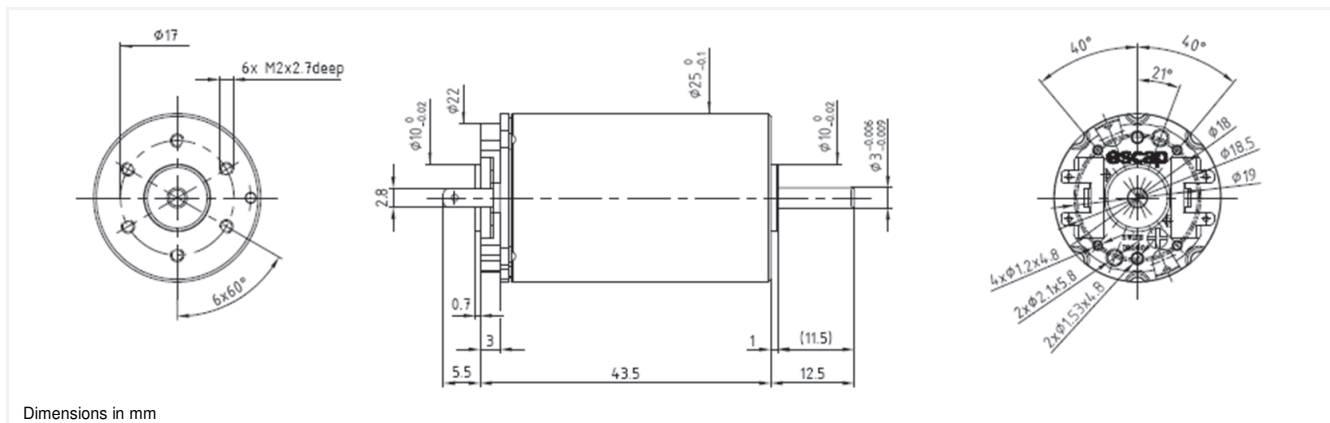


25GST2R82

Graphite-Copper commutation

Ø25mm

33 mNm

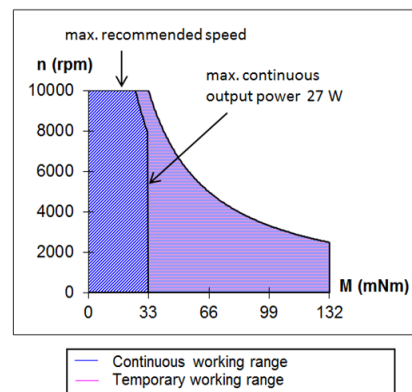


Dimensions in mm

25GST2R82 \*\*\*\* .1

Electrical Data	****	228E	230E	216P	216E	
1 Nominal Voltage	V	18	18	24	35	Volt
2 No-Load Speed	$n_0$	11,125	11,450	10,320	7,850	rpm
3 No-Load Current	$I_0$	110.0	110.0	70.0	40.0	mA
4 Terminal Resistance	R	1.6	1.3	3.3	12.5	$\Omega$
5 Output Power	$P_{2max}$	23.8	26.0	24.0	23.3	W
6 Stall Torque	mNm	172 (24.36)	206 (29.18)	160 (22.66)	118 (16.72)	mNm (oz-in)
7 Efficiency	$\eta_{max}$	81	83	81	78	%
8 Max Continuous Speed	$n_{e max}$	10,000	10,000	10,000	10,000	rpm
9 Max Continuous Torque	$M_{e max}$	30 (4.68)	33 (4.68)	30 (4.25)	30 (4.25)	mNm (oz-in)
10 Max Continuous Current	$I_{e max}$	2.10	2.30	1.45	0.75	A
11 Back-EMF Constant	$k_E$	1.60	1.56	2.30	4.40	mV/rpm
12 Torque Constant	$k_M$	15.30	14.90	22.00	42.00	mNm/A
13 Motor Regulation	$R/k^2$	6.9	5.9	6.8	7.10	$10^3/Nms$
14 Friction Torque	$T_F$	1.68 (0.24)	1.64 (0.24)	1.54 (0.22)	1.68 (0.24)	mNm (oz-in)
15 Rotor Inductance	L	0.10	0.10	0.10	0.80	mH
16 Mechanical Time Constant	$t_m$	6.9	5.9	6.8	7.1	ms
17 Rotor Inertia	J	10.00	10.00	10.00	10.00	$g \cdot cm^2$
<b>General Data</b>						
18 Thermal Resistance (rotor/body)	$R_{th1} / R_{th2}$			6/13		$^\circ C/W$
19 Thermal Time Constant (rotor/stator)	$t_{w1} / t_{w2}$			10/450		S
20 Operating Temperature Range:	motor			-30°C to 85°C (-22°F to 185°F)		$^\circ C (^\circ F)$
	rotor			100°C (212°F)		$^\circ C (^\circ F)$
21 Shaft Load Max.:				With ball bearings		
(5mm from bearing)	-radial			12.0 (43.2)		N (oz)
	-axial			680 (2,445.9)		N (oz)
22 Shaft Play:	-radial			<0.03 (0.0012)		mm (inch)
	-axial			0.15 (0.0059)		mm (inch)
23 Weight	g			111 (3.92)		g (oz)

Execution Table				
Gearbox	Single Shaft	E9	HEDS	MR2
R32	1	2	4	Upon Request
M22	5	11	Upon Request	Upon Request



V121616