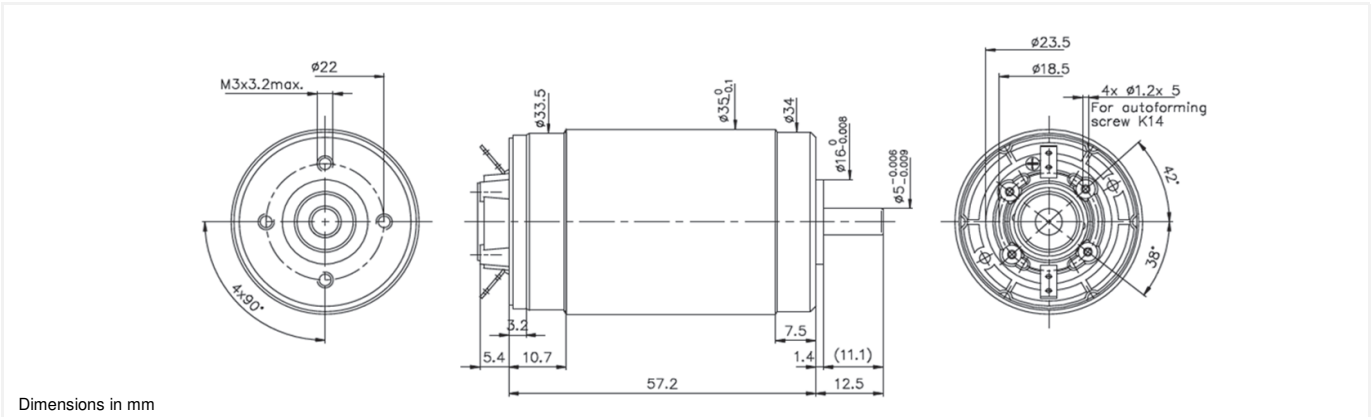


35NT2R82

Graphite-Copper commutation

Ø35mm

114 mNm



35NT2R82 **** .1

Electrical Data	****	426P	226E	426SP	426E	
1 Nominal Voltage	V	18	28	32	60	Volt
2 No-Load Speed	n_0	6,765	6,935	5,850	5,760	rpm
3 No-Load Current	I_0	141.0	80.0	80.0	40.0	mA
4 Terminal Resistance	R	0.6	1.6	2.2	7.7	Ω
5 Output Power	P_{2max}	102.0	91.0	103.0	107.0	W
6 Stall Torque	mNm	828 (117.26)	676 (95.73)	756 (107.06)	782 (110.75)	mNm (oz-in)
7 Efficiency	η_{max}	87	87	86	86	%
8 Max Continuous Speed	$n_{e,max}$	9,000	9,000	9,000	9,000	rpm
9 Max Continuous Torque	$M_{e,max}$	108 (13.74)	97 (13.74)	109 (15.44)	114 (16.15)	mNm (oz-in)
10 Max Continuous Current	$I_{e,max}$	4.40	2.60	2.20	1.19	A
11 Back-EMF Constant	k_E	2.65	4.02	5.45	10.37	mV/rpm
12 Torque Constant	k_M	25.30	38.40	52.00	99.00	mNm/A
13 Motor Regulation	R/k^2	0.9	1.1	0.8	0.77	$10^3/Nms$
14 Friction Torque	T_F	3.57 (0.51)	3.07 (0.44)	4.16 (0.59)	3.96 (0.57)	mNm (oz-in)
15 Rotor Inductance	L	0.10	0.22	0.40	1.70	mH
16 Mechanical Time Constant	t_m	6.1	5.9	5.9	5.5	ms
17 Rotor Inertia	J	71.40	54.00	71.40	71.40	$g.cm^2$
General Data						
18 Thermal Resistance (rotor/body)	R_{th1} / R_{th2}		4/8			$^{\circ}C/W$
19 Thermal Time Constant (rotor/stator)	t_{w1}/t_{w2}		40/920			S
20 Operating Temperature Range:	motor		-30 $^{\circ}C$ to 85 $^{\circ}C$ (-22 $^{\circ}F$ to 185 $^{\circ}F$)			$^{\circ}C$ ($^{\circ}F$)
	rotor		100 $^{\circ}C$ (212 $^{\circ}F$)			$^{\circ}C$ ($^{\circ}F$)
21 Shaft Load Max.:			With ball bearings			
(5mm from bearing)	-radial		35.0 (125.9)			N (oz)
	-axial		100 (359.6)			N (oz)
22 Shaft Play:	-radial		negligible			mm (inch)
	-axial		negligible			mm (inch)
23 Weight	g		310 (10.94)			g (oz)

Execution Table			
Gearbox	Single Shaft	E9	HEDS
R32	54	66	Upon Request
R40	1	96	Upon Request

