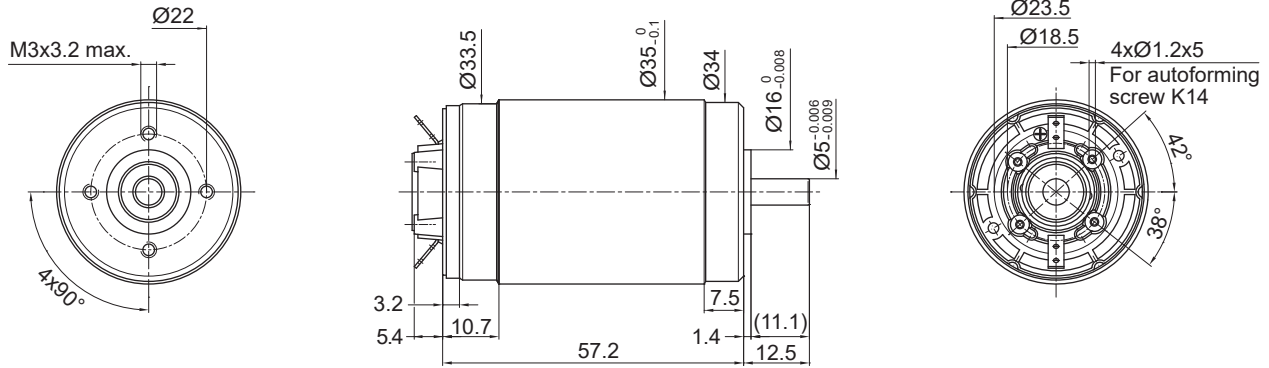


35NT2R82

Ø 35 mm • Graphite-Copper commutation • 114 mNm



Dimensions in inches [mm]

Electrical Data	Symbol	35NT2R82 1				Unit
		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	τ_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		°C/W
19 Thermal Time Constant (rotor/stator)	t_{W1}/t_{W2}	40/920		S
20 Operating Temperature Range:	motor	-30°C to 85°C (-22°F to 185°F)		°C (°F)
	rotor			100°C (212°F)
21 Shaft Load Max.: (5 mm from bearing)	-radial -axial	With ball bearings		
		35.0 (125.9)		N (oz)
		100 (359.6)		N (oz)
22 Shaft Play:	-radial	negligible		mm (inch)
	-axial	negligible		mm (inch)
23 Weight	g	310 (10.94)		g (oz)
24 Commutation Segment	-	13		segment

Execution Table

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

► Motor shaft rotates CW when seen from motor front face when +ve and -ve supply is given to respective terminals.

No Load Speed vs. Torque

