



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	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
18 Thermal Resistance (rotor/body)	R_{th1} / R_{th2}	4/8	4/8	4/8	4/8	°C/W
19 Thermal Time Constant (rotor/stator)	τ_{w1}/τ_{w2}	40/920	40/920	40/920	40/920	°C/W
20 Operating Temperature Range:	motor	-55°C to 125°C (-31°F to 257°F)				°C (°F)
	rotor	155°C (311°F)				°C (°F)
21 Shaft Load max.:		With ball bearings				
at 3,000 rpm (5mm from bearing)	-radial	35.0 (125.9)				N (oz)
at 3,000 rpm	-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			
Gearbox	Single Shaft	E9	HEDS
R32	54	66	Contact Us
R40	1	96	Contact Us

