



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	$\Omega$
5 Output Power	$P_{2\text{max.}}$	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	$\eta_{\text{max.}}$	87	87	86	86	%
8 Max continuous speed	$n_{e \text{ max.}}$	9,000	9,000	9,000	9,000	rpm
9 Max continuous torque	$M_{e \text{ max.}}$	108 (13.74)	97 (13.74)	109 (15.44)	114 (16.15)	mNm (oz-in)
10 Max continuous current	$I_{e \text{ max.}}$	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	$10^3/\text{Nms}$
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	$\tau_m$	6.1	5.9	5.9	5.5	ms
17 Rotor Inertia	J	71.40	54.00	71.40	71.40	$\text{g.cm}^2$
18 Thermal Resistance (rotor/body)	$R_{\text{th1}} / R_{\text{th2}}$	4/8	4/8	4/8	4/8	$^\circ\text{C/W}$
19 Thermal Time Constant (rotor/stator)	$\tau_{w1}/\tau_{w2}$	40/920	40/920	40/920	40/920	$^\circ\text{C/W}$
20 Operating Temperature Range:	motor	-55°C to 125°C (-31°F to 257°F)				$^\circ\text{C}$ ( $^\circ\text{F}$ )
	rotor	155°C (311°F)				$^\circ\text{C}$ ( $^\circ\text{F}$ )
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

