



35GLT2R82 **** .1

Electrical Data	****	426P	326P	234E	426SP	426E	
1 Nominal Voltage	V	24	24	48	48	90	Volt
2 No-Load Speed	n_0	6,260	5,835	7,490	6,175	5,439	rpm
3 No-Load Current	I_0	120.0	120.0	70.0	60.0	60.0	mA
4 Terminal Resistance	R	0.7	0.9	2.3	2.5	9.5	Ω
5 Output Power	$P_{2max.}$	136.0	124.0	122.0	142.0	150.0	W
6 Stall Torque	mNm	1327 (187.92)	1043 (147.71)	1300 (184.1)	1409 (199.54)	1487 (210.58)	mNm (oz-in)
7 Efficiency	$\eta_{max.}$	89	87	89	89	85	%
8 Max continuous speed	$n_{e max.}$	12,000	12,000	12,000	12,000	12,000	rpm
9 Max continuous torque	$M_{e max.}$	142 (18.7)	132 (18.7)	130 (18.41)	150 (21.25)	160 (22.66)	mNm (oz-in)
10 Max continuous current	$I_{e max.}$	4.20	3.50	2.20	2.10	1.05	A
11 Back-EMF Constant	k_E	3.82	4.09	6.39	7.75	16.44	mV/rpm
12 Torque Constant	k_M	36.50	39.10	61.00	74.00	157.00	mNm/A
13 Motor Regulation	R/k^2	0.5	0.6	0.6	0.46	0.39	$10^3/Nms$
14 Friction Torque	T_F	4.38 (0.63)	4.69 (0.67)	4.27 (0.61)	4.44 (0.63)	9.42 (1.34)	mNm (oz-in)
15 Rotor Inductance	L	0.10	0.15	0.25	0.40	1.70	mH
16 Mechanical Time Constant	τ_m	3.9	4.4	4.0	4.0	2.7	ms
17 Rotor Inertia	J	83.00	75.00	65.00	85.00	70.00	g.cm ²
18 Thermal Resistance (rotor/body)	R_{th1} / R_{th2}	4/8	4/8	4/8	4/8	4/8	$^{\circ}C/W$
19 Thermal Time Constant (rotor/stator)	τ_{w1}/τ_{w2}	75/950	75/950	75/950	75/950	75/950	$^{\circ}C/W$
20 Operating Temperature Range:	motor	-55°C to 125°C (-31°F to 257°F)					$^{\circ}C (^{\circ}F)$
	rotor	155°C (311°F)					$^{\circ}C (^{\circ}F)$
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	360 (12.7)					g (oz)

Execution			
Gearbox	Single Shaft	E9	HEDS
R32	1	50	Contact Us
R40	1	50	Contact Us

Max. Recommended Speed

