



Electrical Data	****	234P	234E	
1 Nominal Voltage	V	15	35	Volt
2 No-Load Speed	$n_0$	7,090	8,600	rpm
3 No-Load Current	$I_0$	180.0	90.0	mA
4 Terminal Resistance	R	0.5	1.6	$\Omega$
5 Output Power	$P_{2max}$	77.0	82.0	W
6 Stall Torque	mNm	628 (88.94)	847 (119.95)	mNm (oz-in)
7 Efficiency	$\eta_{max}$	85	88	%
8 Max continuous speed	$n_{e max.}$	12,000	12,000	rpm
9 Max continuous torque	$M_{e max.}$	87 (13.03)	92 (13.03)	mNm (oz-in)
10 Max continuous current	$I_{e max.}$	4.50	2.50	A
11 Back-EMF Constant	$k_E$	2.10	4.05	mV/rpm
12 Torque Constant	$k_M$	20.10	38.70	mNm/A
13 Motor Regulation	$R/k^2$	1.2	1.1	$10^3/Nms$
14 Friction Torque	$T_F$	3.62 (0.52)	3.48 (0.5)	mNm (oz-in)
15 Rotor Inductance	L	0.06	0.24	mH
16 Mechanical Time Constant	$\tau_m$	4.0	3.6	ms
17 Rotor Inertia	J	33.00	33.00	g.cm <sup>2</sup>
18 Thermal Resistance (rotor/body)	$R_{th1} / R_{th2}$	4.5/9	4.5/9	$^{\circ}C/W$
19 Thermal Time Constant (rotor/stator)	$\tau_{w1}/\tau_{w2}$	18/630	18/630	$^{\circ}C/W$
20 Operating Temperature Range:	motor	-30°C to 125°C (-22°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 (10mm 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	4	5	20
R40	4	5	Contact Us

Max. Recommended Speed

