



Dimensions in inches [mm]

Electrical Data	Symbol	26N58 1				Unit
		216P	216E	113	110	
1 Nominal Voltage	V	6	12	15	24	Volt
2 No-Load Speed	n_0	4,600	4,735	5,470	6,660	rpm
3 No-Load Current	I_0	31.0	16.0	15.0	20.0	mA
4 Terminal Resistance	R	2.5	10.0	15.2	32.0	Ω
5 Output Power	P_{2max}	6.2	6.0	5.2	4.6	W
6 Stall Torque	mNm	29.6 (4.2)	28.6 (4.06)	25 (3.55)	25 (3.55)	mNm (oz-in)
7 Efficiency	η_{max}	79	78	77	70	%
8 Max Continuous Speed	$n_{e max}$	8,000	8,000	8,000	8,000	rpm
9 Max Continuous Torque	$M_{e max}$	17.9 (2.45)	17.3 (2.45)	15.1 (2.14)	13.3 (1.89)	mNm (oz-in)
10 Max Continuous Current	$I_{e max}$	1.47	0.74	0.60	0.41	A
11 Back-EMF Constant	k_E	1.29	2.50	2.70	3.51	mV/rpm
12 Torque Constant	k_M	12.30	23.90	25.80	33.50	mNm/A
13 Motor Regulation	R/k^2	16.5	17.5	22.8	28.51	10 ³ /Nms
14 Friction Torque	T_F	0.38 (0.06)	0.38 (0.06)	0.38 (0.06)	0.38 (0.06)	mNm (oz-in)
15 Rotor Inductance	L	0.22	0.80	1.00	1.50	mH
16 Mechanical Time Constant	τ_m	9.9	10.5	13.7	17.1	ms
17 Rotor Inertia	J	6.00	6.00	6.00	6.00	g-cm ²

General Data				
18 Thermal Resistance (rotor/body)	R_{th1}/R_{th2}	5/12		°C/W
19 Thermal Time Constant (rotor/stator)	t_{W1}/t_{W2}	10/640		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)		With sleeve bearings		
	-radial	6.0 (21.6)		N (oz)
	-axial	250 (899.2)		N (oz)
22 Shaft Play:	-radial	<0.03 (0.0012)		mm (inch)
	-axial	0.15 (0.0059)		mm (inch)
23 Weight	g	114 (4.03)		g (oz)
24 Commutation Segment	-	9		segment

Execution Table

Gearbox	Single Shaft	Double Shaft for E9
R22	5	9
K24	5	9
K27	5	9

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

