



26BC 6A - \*\*

Electrical Data	**	119	113	110	107	
1 Nominal Voltage	$U_N$	7.5	7.5	15	15	Volt
2 Optimization direction	-	symmetrical	symmetrical	symmetrical	symmetrical	-
3 No-Load Speed	$n_0$	12,500	7,250	9,300	4,700	rpm
4 Typical no-load current	$I_0$	250.0	170.0	120.0	50.0	mA
5 Max continuous mechanical power (@ 25°C)	$P_{max}$	4.2	4.4	4.6	4.2	W
6 Max continuous current	$I_{e max}$	1.2	0.6	0.4	0.2	A
7 Max continuous torque	$M_{e max}$	4 (0.57)	4.2 (0.6)	4.4 (0.63)	4 (0.57)	mNm (oz-in)
8 Back EMF Constant	$K_E$	0.56	0.96	1.40	2.66	V/1000 rpm
9 Torque Constant	$k_M$	5.4	9.2	13.4	25.4	mNm/A
10 Motor regulation	$R/k^2$	65.2	80.3	98.0	107.0	$10^3/Nms$
11 Motor regulation	$k/R^{1/2}$	3.92 (0.56)	3.53 (0.5)	3.19 (0.46)	3.06 (0.44)	mNm/W <sup>1/2</sup> (oz-in/W <sup>1/2</sup> )
12 Internal resistance - phase to phase	$R_I$	1.90	6.80	17.60	69.00	ohms
13 Line to line resistance at connectors	$R_L$	1.90	6.80	17.60	69.00	ohms
14 Inductance phase to phase	$L$	0.23	0.71	1.65	5.80	mH
15 Mechanical Time Constant	$t_m$	61.0	75.0	92.0	100.0	ms
16 Electrical Time Constant	$t_e$	0.12	0.10	0.09	0.08	ms

General Data				
17 Maximum motor speed	$n_{max}$		14,000	rpm
18 Ambient working temperature range	-		0 to + 70 (32 to 158)	°C (°F)
19 Ambient storage temperature range	-		0 to + 70 (32 to 158)	°C (°F)
20 Ball bearings preload	-		5.0	N
21 Axial static force without shaft support (max)	-		120.0	N
22 Maximum winding temperature	-		125 (257)	°C (°F)
23 Thermal Resistance	$R_{th}$		14.0	°C/W
24 Thermal time constant	$t_w$		0	s
25 Weight	-		72 (2.54)	g (oz)
26 Rotor Inertia	$J$		9.400	g.cm <sup>2</sup>
27 Hall sensor electrical phasing	-		n.a.	Electrical °

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integrated electronics

Wire	Description
Brown	Ground
Red	Power supply voltage (2.5 - 18 V)
Orange	Direction CCW/CW
Yellow	Enable start / stop
Green	Logic supply voltage (5 - 18 V)
Blue	Speed signal

