

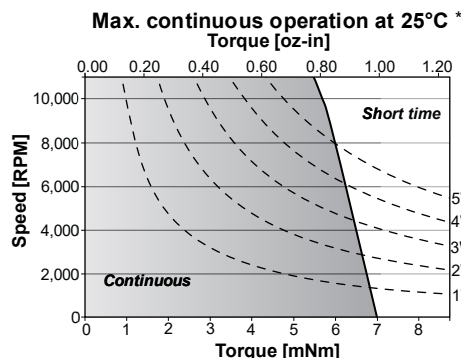
Dimensions in mm.

Electrical Data	Symbol	26BC 6A-xxx.101				Unit
		119	113	110	107	
1 Nominal Voltage	$U_N$	7.5	7.5	15	15	Volt
2 Optimization Direction	-	Symetrical	Symetrical	Symetrical	Symetrical	-
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)	$P_{max}$	4.5	4.5	4.5	4.5	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)	$mNm/W^{1/2}$ (oz-in/ $W^{1/2}$ )
12 Internal Resistance - phase to phase	$R_l$	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	$L$	0.03	0.12	0.32	1.23	mH
15 Mechanical Time Constant	$\tau_m$	61.0	75.0	92.0	100.0	ms
16 Electrical Time Constant	$\tau_e$	0.02	0.02	0.02	0.02	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 w/o Shaft Support (max)	-		45.0 N
22 Maximum Winding Temperature	-		125 (257) °C (°F)
23 Thermal Resistance	$R_{th}$		14.0 °C/W
24 Thermal Time Constant	$\tau_w$		660 s
25 Weight	-		72 (2.54) g (oz)
26 Rotor Inertia	$J$		9.400 g-cm <sup>2</sup>
27 Hall Sensor Electrical Phasing	-		NA Electrical °

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****

\*\* For coil 119 and 113, do not exceed 7.5 V max.  
 \*\*\* When grounded, motor is not powered  
 \*\*\*\* Speed signal is a square wave voltage with one pulse per revolution



\*Depends on coil and electronic 3C / 6A

Do not reverse polarity!