

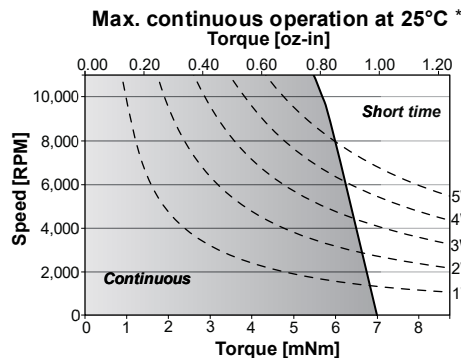
Dimensions in mm.

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	-	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}	4.5	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_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	0.03	0.12	0.32	1.23	mH
15 Mechanical Time Constant	τ_m	61.0	75.0	92.0	100.0	ms
16 Electrical Time Constant	τ_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	τ_w	660		s
25 Weight	-	72 (2.54)		g (oz)
26 Rotor Inertia	J	9.400		g-cm ²
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!