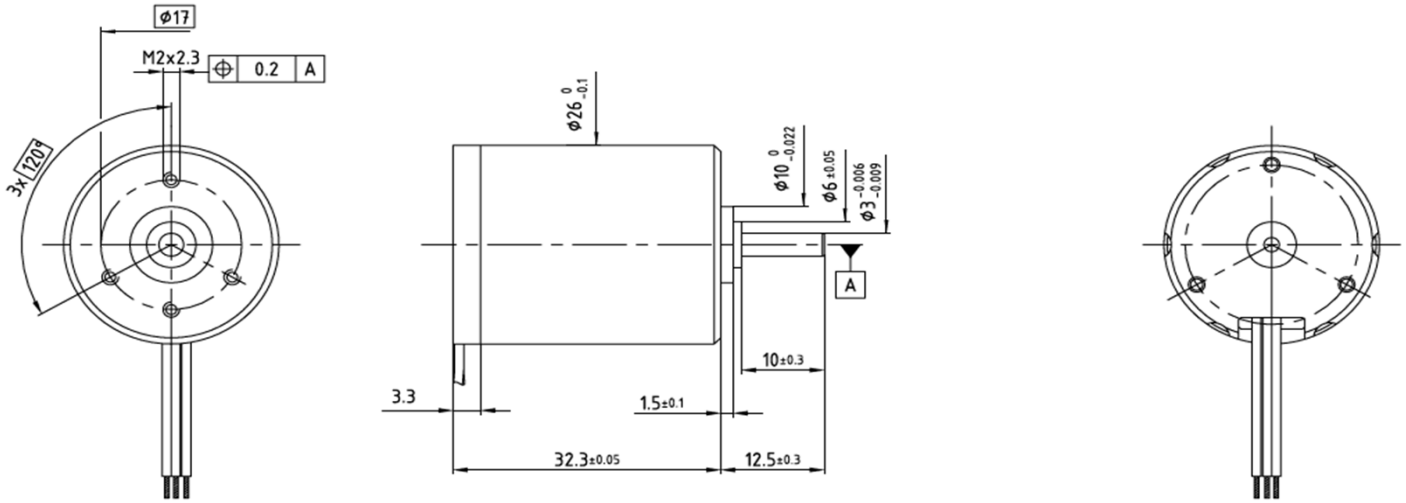
26BC 3C

Brushless Slotless | Ø26mm | 5.7 W



26BC 3C - **

Electrical Data	**	109P	
1 Nominal Voltage	U_N	12	Volt
2 Optimization direction	-	n.a.	-
3 No-Load Speed	n_0	14,800	rpm
4 Typical no-load current	I_0	180.0	mA
5 Max continuous mechanical power (@ 25°C)	P_{max}	5.7	W
6 Max continuous current	$I_{e\ max}$	0.8	A
7 Max continuous torque	$M_{e\ max}$	7 (1)	mNm (oz-in)
8 Back EMF Constant	K_E	0.73	V/1000 rpm
9 Torque Constant	k_M	7.0	mNm/A
10 Motor regulation	R/k^2	102.0	10^3/Nms
11 Motor regulation	$k/R^{½}$	3.1 (0.44)	mNm/$W^{½}$ (oz-in/$W^{½}$)
12 Internal resistance - phase to phase	R_I	5.00	ohms
13 Line to line resistance at connectors	R_L	5.00	ohms
14 Inductance phase to phase	L	3.80	mH
15 Mechanical Time Constant	t_m	95.0	ms
16 Electrical Time Constant	t_e	0.76	ms
General Data			
17 Maximum motor speed	n_{max}	20,000	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	$g.cm^2$
27 Hall sensor electrical phasing	-	n.a.	Electrical °

26BC - 3C - ** - 101
sensorless

Wire	Description
Grey	Phase 1
Violet	Phase 2
Blue	Phase 3