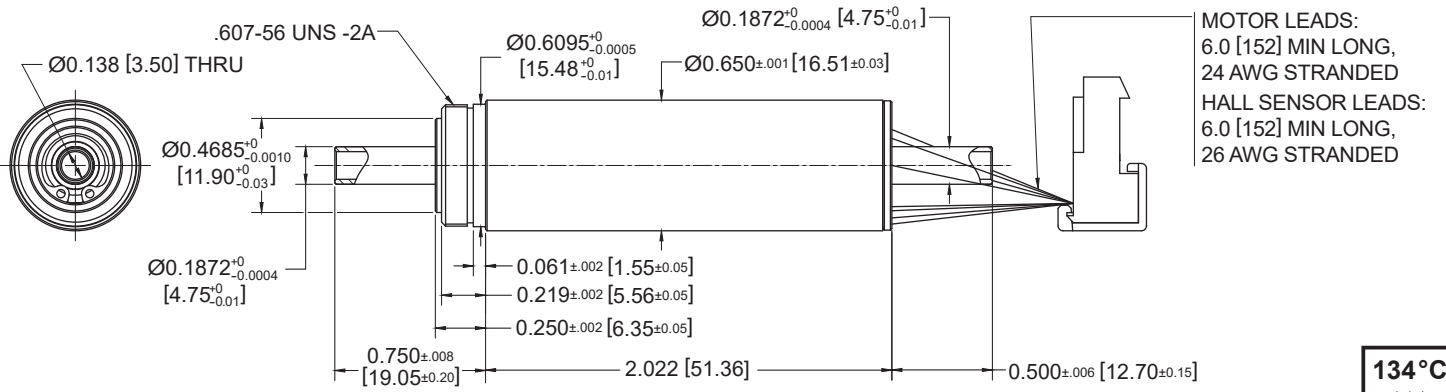


B0612H1007 Cannulated Shaver/Microdebrider

Ø 0.65 inch • Brushless Slotted • 24 V



Dimensions in inches [mm]

Electrical Data	Symbol	SMX B0612H1007	Unit
1 Nominal Voltage	U_N	24.0	Volt
2 Optimization Direction	-	Bi-Directional	-
3 No Load Speed	n_0	35,597	rpm
4 Typical No Load Current	I_0	284	mA
5 Max. Continuous Mechanical Power (@25°C)	P_{max}	68.5	W
6 Max. Continuous Current	I_{cs}	3.62	A
7 Max. Continuous Torque	T_{cs}	19.8 (2.81)	mNm (oz-in)
8 Back EMF Constant	k_E	0.671	V/1000 rpm
9 Torque Constant	k_T	6.40 (0.907)	mNm/A (oz-in/A)
10 Motor Regulation	R/k^2	13379	$10^3/Nms$
11 Peak Torque	T_{pk}	278.2 (39.4)	mNm (oz-in)
12 Motor Constant	k_M	8.69 (1.23)	$mNm/W^{1/2}$ (oz-in/ $W^{1/2}$)
13 Line to Line Resistance	R_L	0.548	ohms
14 Inductance Phase to Phase	L	0.119	mH
15 Mechanical Time Constant	τ_m	0.80	ms
16 Electrical Time Constant	τ_e	0.217	ms

General Data			
17 Gearhead Ratio	-	N/A	Ratio
18 Ambient Working Temperature Range	-	25 (77)	°C (°F)
19 Max Operating Temperature Range	-	155 (311)	°C (°F)
20 Radial Static Force w/o Shaft Support (max)	-	25.99	lbs
21 Axial Static Force w/o Shaft Support (max)	-	10.33	lbs
22 Thermal Resistance	R_{th}	12.0	°C/W
23 Thermal Time Constant	τ_w	936	s
24 Weight	-	75.8 (2.67)	g (oz)
25 Rotor Inertia	J_m	9.79 (13.86)	$kg\cdot cm^2 \cdot 10^{-4}$ (oz-in-sec ² 10^{-6})
26 Hall Sensor Electrical Phasing*	-	60	Electrical °
27 Autoclave Cycles	-	1000+	Cycles

*Also available without Hall sensors

Wire	Description
Blue	Phase A
Brown	Phase B
Violet	Phase C
Red	4.5 to 24 Vdc
Yellow	Sensor 1
Orange	Sensor 2
White	Sensor 3
Black	GND

