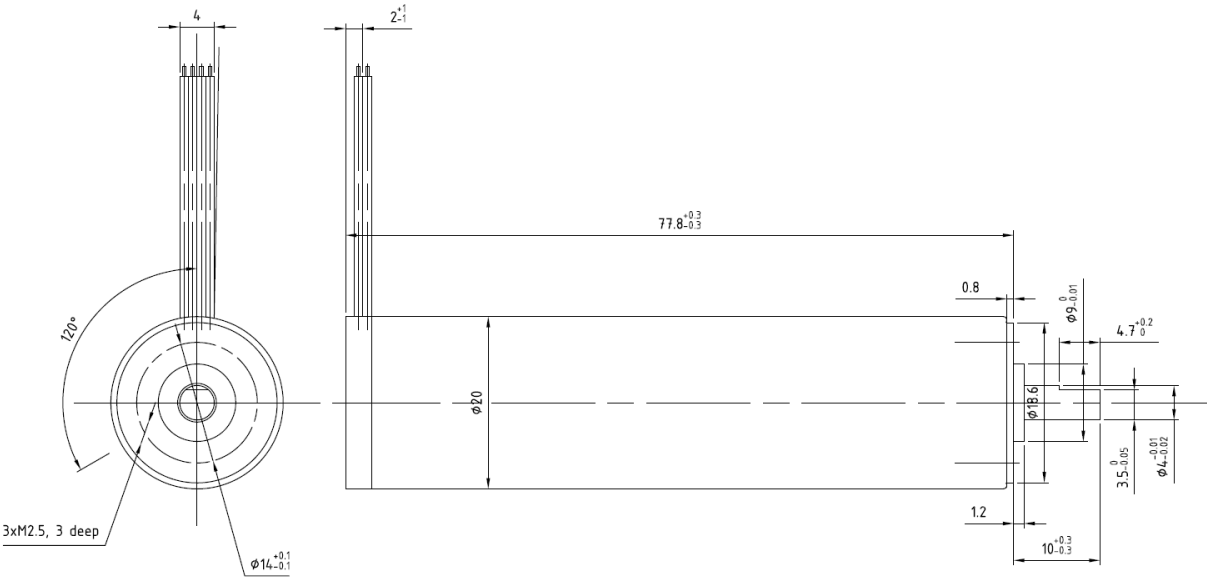
Brushless motor type BSM020-78-24

Features:

- 4 poles rotor with NdFeB magnets
- 3 phase winding
- stainless steel housing



	Units	Value
Voltage	V_{DC}	24
Stall torque [1]	N·m	0.04
Nominal torque [2]	N·m	0.038
Nominal speed	rpm	5900
Nominal output power	W	24
Efficiency	%	>70
Torque constant (K_T)	$N·m/A_{rms}$	0.022
Back EMF constant (K_E)	V_{rms}/Krpm	1.4
Line-to-line resistance	Ω	1.3
Line-to-line inductance	mH	0.3
Inertia	Kg·cm2	0.0052
Poles		4
Cogging torque	N·m	0
Weight	Kg	0.14
Phase connection		Δ
Insulation class		F
Ambient temperature	°C	-30°C to +40°C
Protection grade		IP 50
Sensors		3 HALL sensors

[1] δW winding temperature: 20°C
[2] continuous torque (S1), δW winding temperature: 130°C

		Motor excitation sequence and Hall						
		(Definitions are for Clockwise rotation)						
	Step	1	2	3	4	5	6	1
Stator Leads	A (RED)	+	+		-	-		+
	B (WHT)	-		+	+		-	-
	C (BLK)		-	-		+	+	
Hall Sensors Leads	A (BRN)	1	1	0	0	0	1	1
	B (ORG)	0	1	1	1	0	0	0
	C (YEL)	0	0	0	1	1	1	0
	+ (BLUE)	+	+	+	+	+	+	+
	- (GREEN)	-	-	-	-	-	-	-

Motor BEMF, Hall Sensors orientation definitions for CW rotation viewing leads end