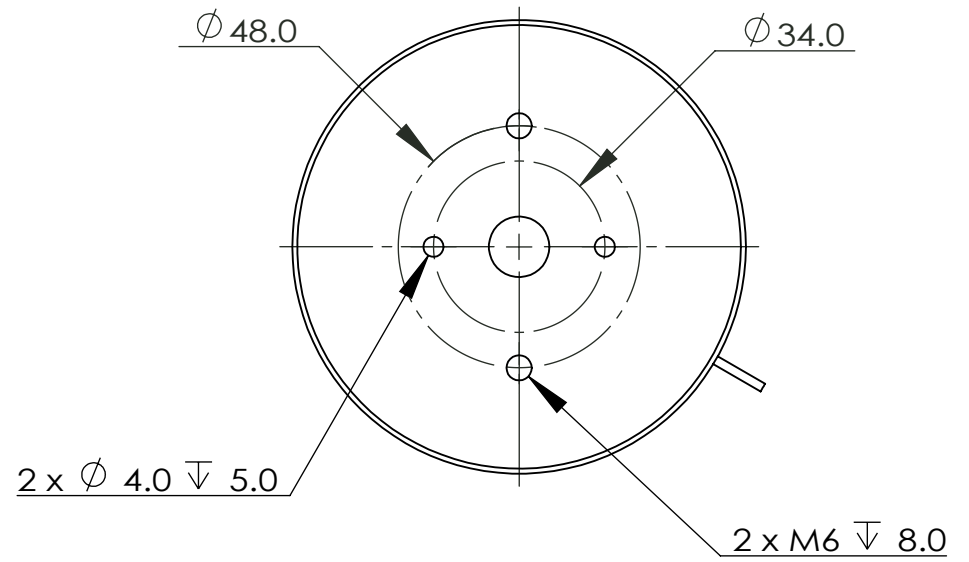
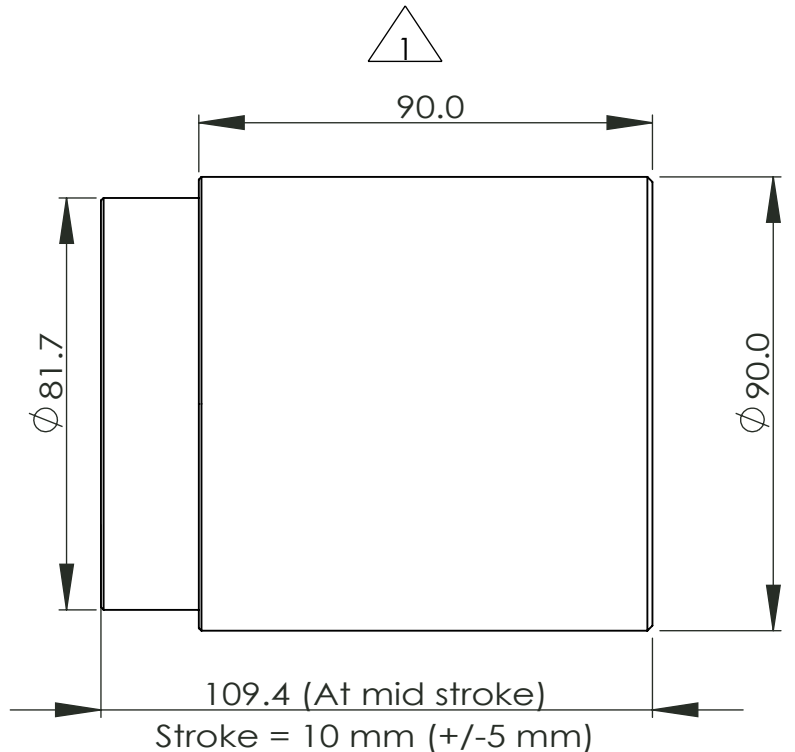
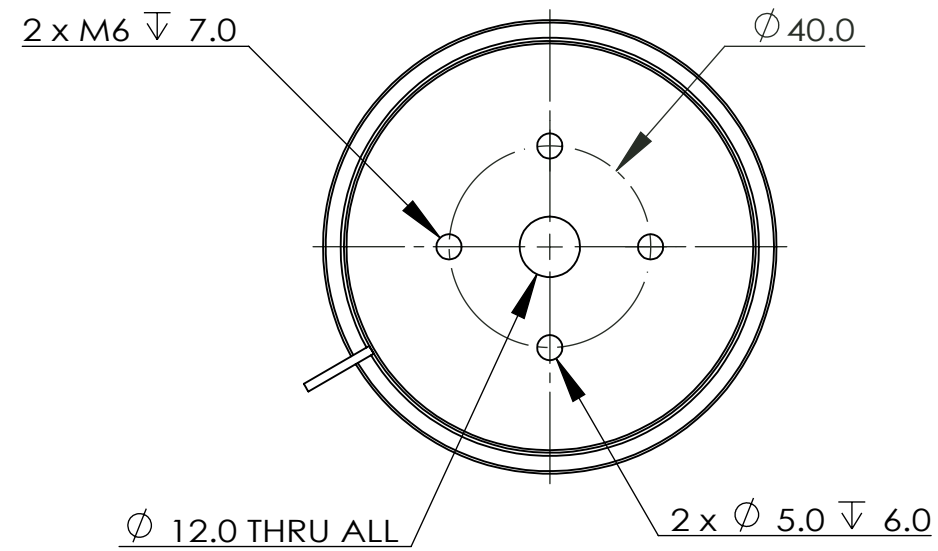
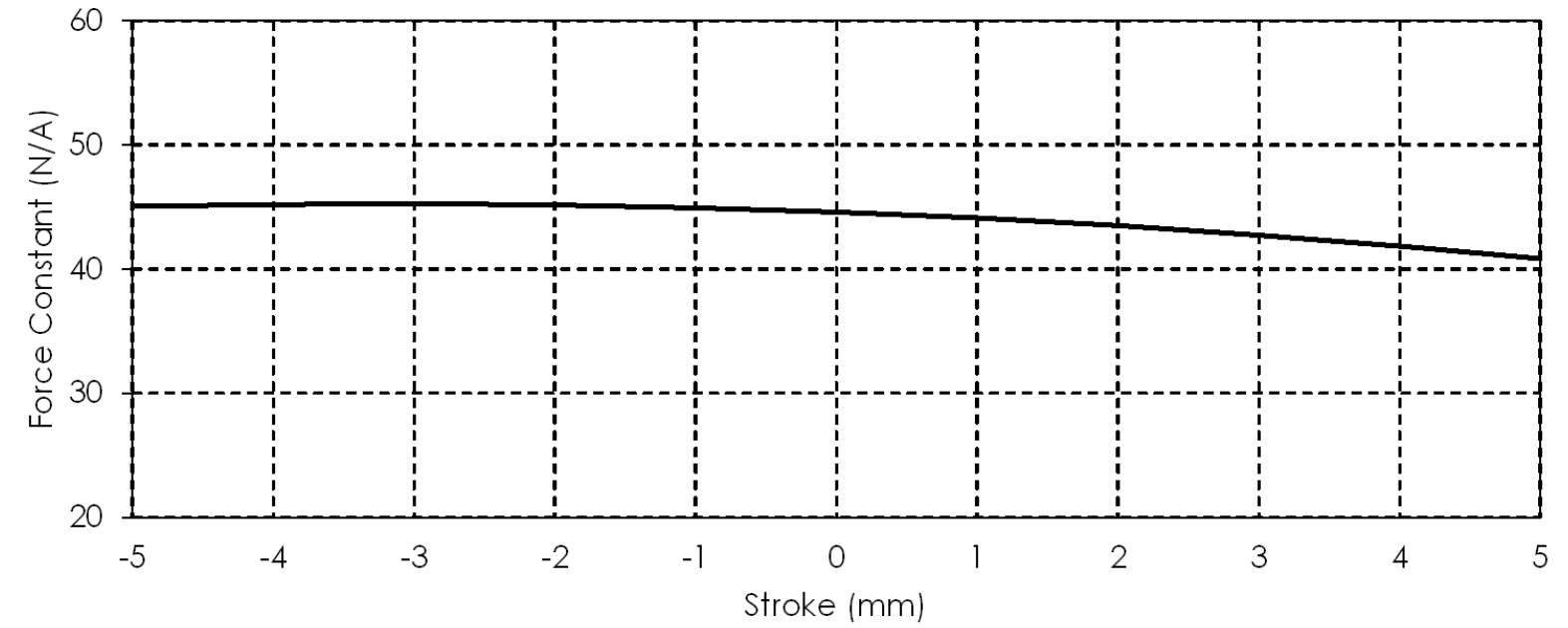


Performance Parameters	Symbol	Unit	AVM90-HF-10
Stroke	S	mm	10.0
Continuous Force @100°C ^{[1][2]}	F _c	N	156.1
Peak Force ^[2]	F _{pk}	N	610.2
Force Constant ±10% ^[2]	K _f	N/A	44.6
Back EMF Constant ±10% ^[2]	K _e	V/(m/s)	44.6
Motor Constant @25°C ^[2]	K _m	N/Sqrt(W)	25.3
Resistance @25°C ±10% ^[3]	R ₂₅	Ω	3.10
Inductance ±20% ^[4]	L	mH	4.02
Electrical Time Constant	T _e	ms	1.30
Continuous Current @100°C ^[1]	I _c	A	3.5
Peak Current	I _{pk}	A	14.0
Continuous Power Dissipation @100°C ^[1]	P _c	W	48.9
Max. Coil Temperature	t _{max}	°C	100
Thermal Dissipation Constant ^[1]	K _{th}	W/°C	0.653
Max. Voltage	U _{max}	Vdc	120
Coil Mass	m _{coil}	g	960.0
Core Mass	m _{core}	g	2400.0
Running Clearance	L _{gap}	mm	0.65

[1] Measurement is taken at ambient temperature 25°C. Value depends on the thermal environment.
 [2] The values are at mid stroke.
 [3] Resistance is measured by DC current with 0.5 m lead wire.
 [4] Inductance is measured by current frequency of 1 kHz.
 The contents of datasheet are subject to change without prior notice.

AVM90-HF-10

REV	DESCRIPTION	BY	DATE	APPD
0	INITIAL RELEASE	WSM	2021/10/26	YX
1	Track height updated	WSM	2024/3/29	YX



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	REMOVE ALL SHARP EDGES	Drawn	WSM	2021/10/25		
	GENERAL TOLERANCE X ± 0.25mm X.X ± 0.1mm X.XX ± 0.05mm X.XXX ± 0.025mm	3rd ANGLE PROJECTION	Checked	YH		2021/10/26
			Approved	YX		2021/10/26
			Material	NA		
			Surface Treatment	NA		
		Heat Treatment	NA		Model: AVM90-HF-10_Customer Drawing	
		Quantity	NA		Title: AVM90-HF-10_Customer Drawing	
					Dwg No: AVM90-HF-10	
					Sheet: 1 OF 1	
					Rev: 1	