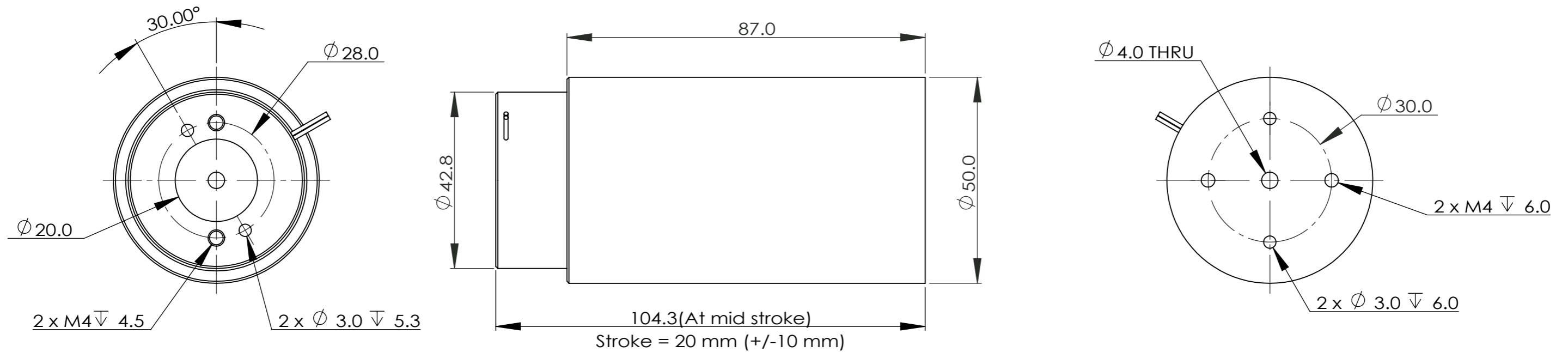
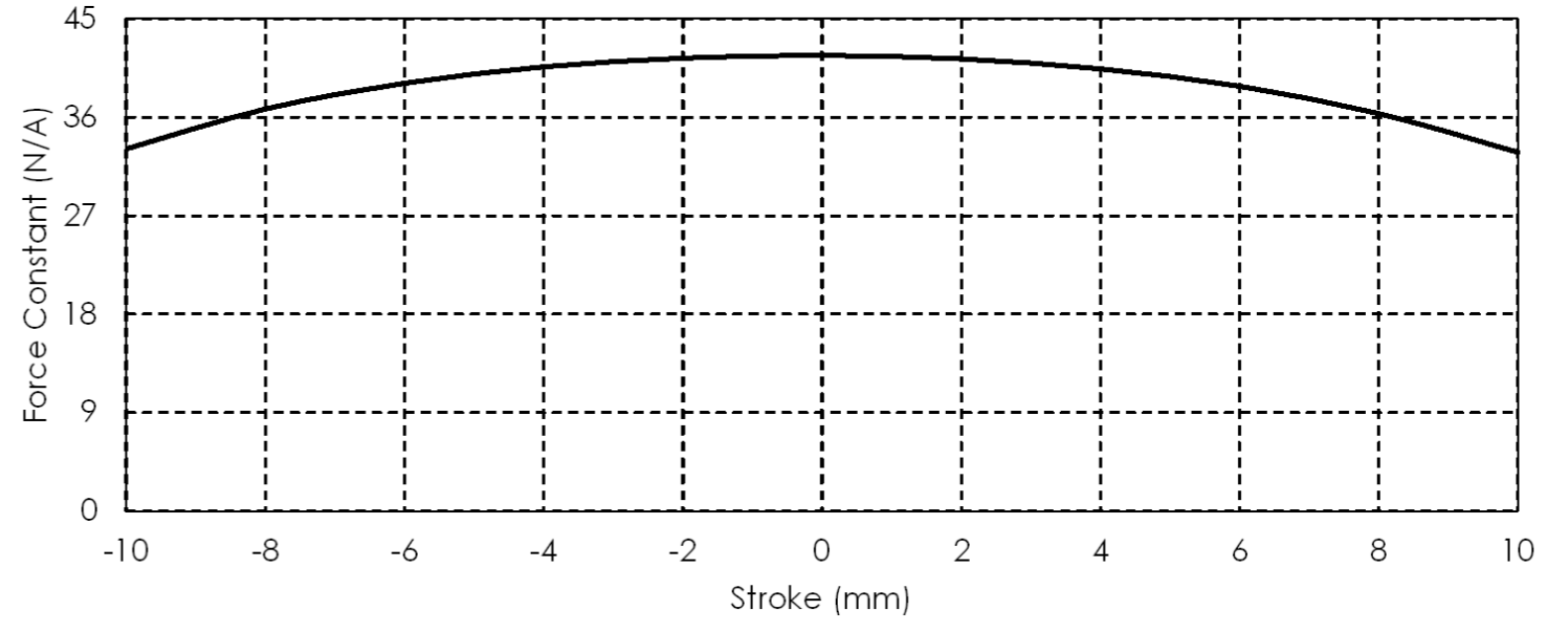




Performance Parameters	Symbol	Unit	AVM50-HF-20
Stroke	S	mm	20.0
Continuous Force @100°C ^{[1][2]}	F _c	N	50.0
Peak Force ^[2]	F _{pk}	N	208.5
Force Constant ±10% ^[2]	K _f	N/A	41.6
Back EMF Constant ±10% ^[2]	K _e	V/(m/s)	41.6
Motor Constant @25°C ^[2]	K _m	N/Sqrt(W)	12.0
Resistance @25°C ±10% ^[3]	R ₂₅	Ω	11.9
Inductance ±20% ^[4]	L	mH	8.2
Electrical Time Constant	τ _e	ms	0.69
Continuous Current @100°C ^[1]	I _c	A	1.2
Peak Current	I _{pk}	A	5.0
Continuous Power Dissipation @100°C ^[1]	P _c	W	22.2
Max. Coil Temperature	t _{max}	°C	100
Thermal Dissipation Constant ^[1]	K _{th}	W/°C	0.295
Max. Voltage	U _{max}	Vdc	60
Coil Mass	m _{coil}	g	195.0
Core Mass	m _{core}	g	931.1
Running Clearance	L _{gap}	mm	0.60

[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.

AVM50-HF-20

REV	DESCRIPTION	BY	DATE	APPD
0	INITIAL RELEASE	SL	2021/10/26	YX
1	Coil weight and inductance updated	WSM	2022/11/22	YX



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	REMOVE ALL SHARP EDGES	Drawn	SL	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: AVM50-HF-20_Customer Drawing	
		Quantity	NA		Title: AVM50-HF-20_Customer Drawing	
					Dwg No: AVM50-HF-20	
					Sheet: 1 OF 1	
					Rev: 1	