

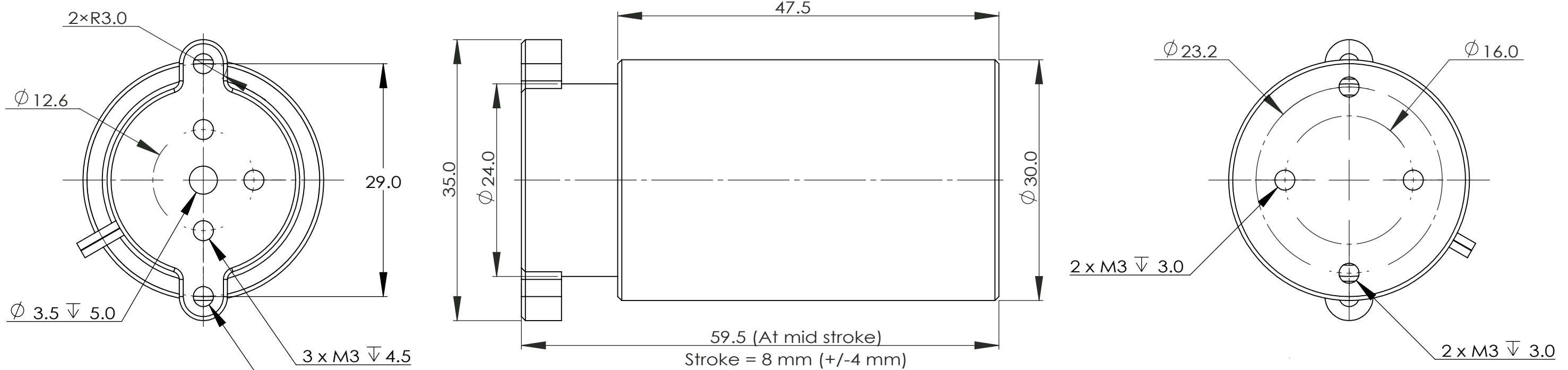
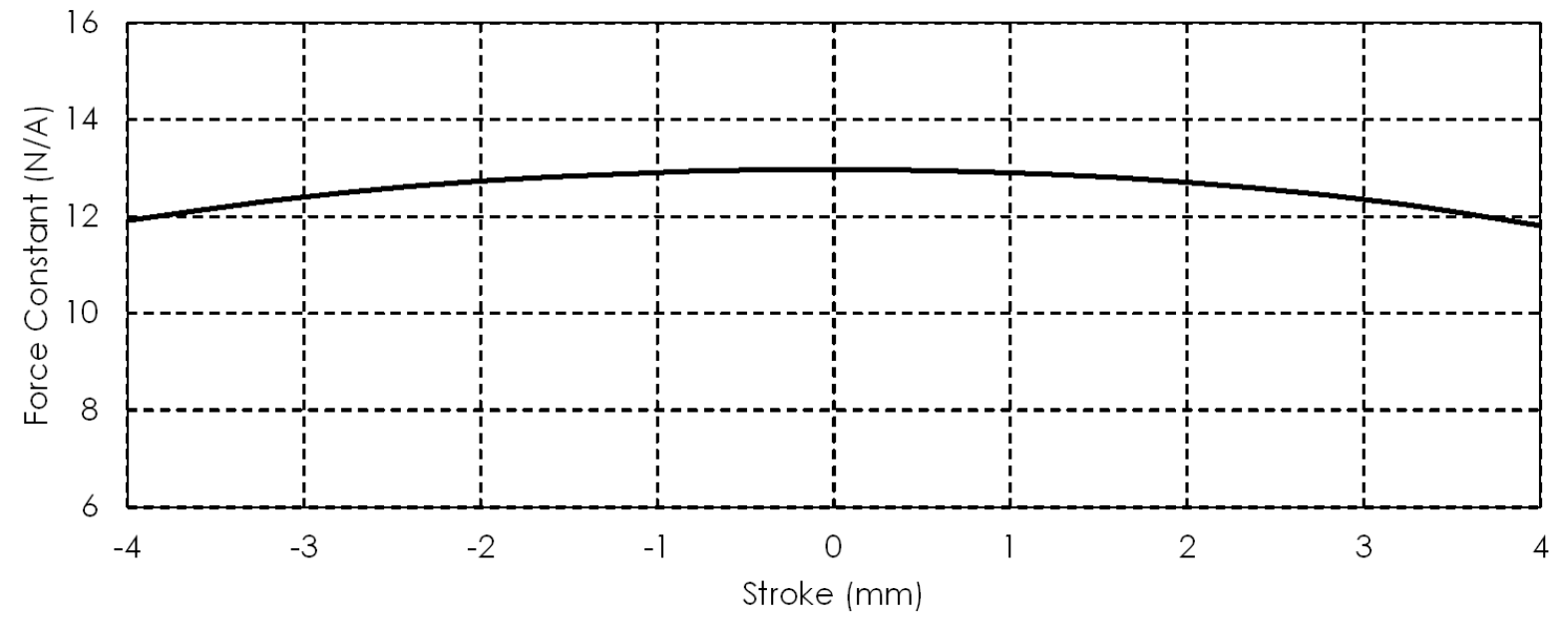
Performance Parameters	Symbol	Unit	AVM30-HF-8
Stroke	S	mm	8.0
Continuous Force @100°C <sup>[1][2]</sup>	F <sub>c</sub>	N	9.99
Peak Force <sup>[2]</sup>	F <sub>pk</sub>	N	51.9
Force Constant ±10% <sup>[2]</sup>	K <sub>f</sub>	N/A	13.0
Back EMF Constant ±10% <sup>[2]</sup>	K <sub>e</sub>	V/(m/s)	13.0
Motor Constant @25°C <sup>[2]</sup>	K <sub>m</sub>	N/Sqrt(W)	4.14
Resistance @25°C ±10% <sup>[3]</sup>	R <sub>25</sub>	Ω	9.80
Inductance ±20% <sup>[4]</sup>	L	mH	1.75
Electrical Time Constant	τ <sub>e</sub>	ms	0.18
Continuous Current @100°C <sup>[1]</sup>	I <sub>c</sub>	A	0.8
Peak Current	I <sub>pk</sub>	A	4.0
Continuous Power Dissipation @100°C <sup>[1]</sup>	P <sub>c</sub>	W	7.5
Max. Coil Temperature	t <sub>max</sub>	°C	100
Thermal Dissipation Constant <sup>[1]</sup>	K <sub>th</sub>	W/°C	0.100
Max. Voltage	U <sub>max</sub>	Vdc	60
Coil Mass	m <sub>coil</sub>	g	30.9
Core Mass	m <sub>core</sub>	g	194.9
Running Clearance	L <sub>gap</sub>	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.

# AVM30-HF-8

REV	DESCRIPTION	BY	DATE	APPD
0	INITIAL RELEASE	SL	2021/10/26	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		Model: AVM30-HF-8_Customer Drawing	
		Heat Treatment	NA		Title: AVM30-HF-8_Customer Drawing	
		Quantity	NA		Dwg No: AVM30-HF-8	
					Sheet: 1 OF 1	
					Rev: 0	