

Performance Parameters	Symbol	Unit	AVM250-HF-20
Stroke	S	mm	20.0
Continuous Force @100°C ^{[1][2]}	F _c	N	1111.4
Peak Force ^[2]	F _{pk}	N	4715.2
Force Constant ±10% ^[2]	K _f	N/A	168.4
Back EMF Constant ±10% ^[2]	K _e	V/(m/s)	168.4
Motor Constant @25°C ^[2]	K _m	N/Sqrt(W)	87.5
Resistance @25°C ±10% ^[3]	R ₂₅	Ω	3.70
Inductance ±20% ^[4]	L	mH	5.32
Electrical Time Constant	τ _e	ms	1.44
Continuous Current @100°C ^[1]	I _c	A	6.6
Peak Current	I _{pk}	A	28.0
Continuous Power Dissipation @100°C ^[1]	P _c	W	207.7
Max. Coil Temperature	t _{max}	°C	100
Thermal Dissipation Constant ^[1]	K _{th}	W/°C	2.769
Max. Voltage	U _{max}	Vdc	120
Coil Mass	m _{coil}	g	5900.0
Core Mass	m _{core}	g	27200.0
Running Clearance	L _{gap}	mm	0.90

[1] Measurement is taken at ambient temperature 25°C. Value depends on the thermal environment.

[2] The values are at mid stroke.

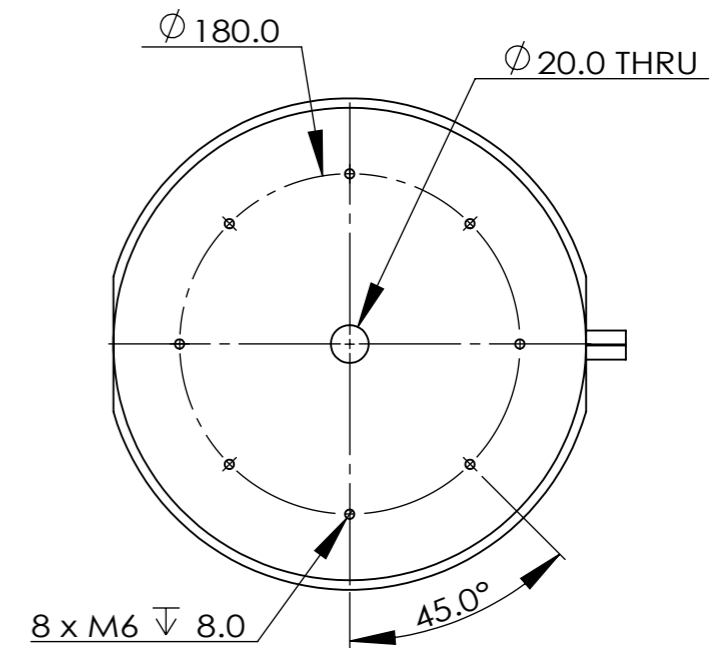
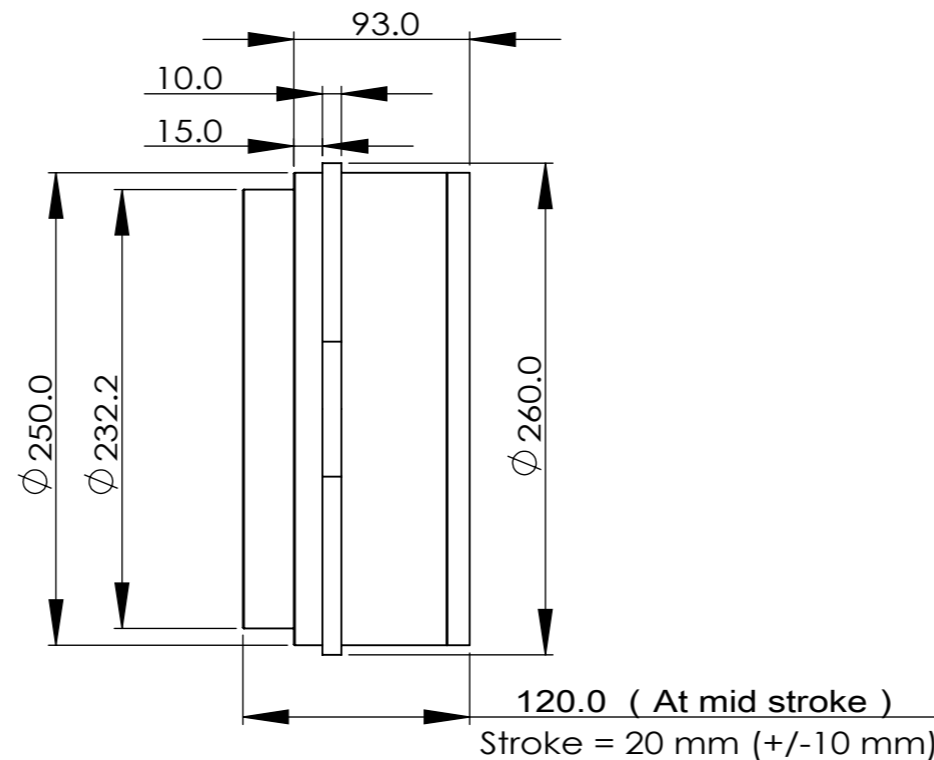
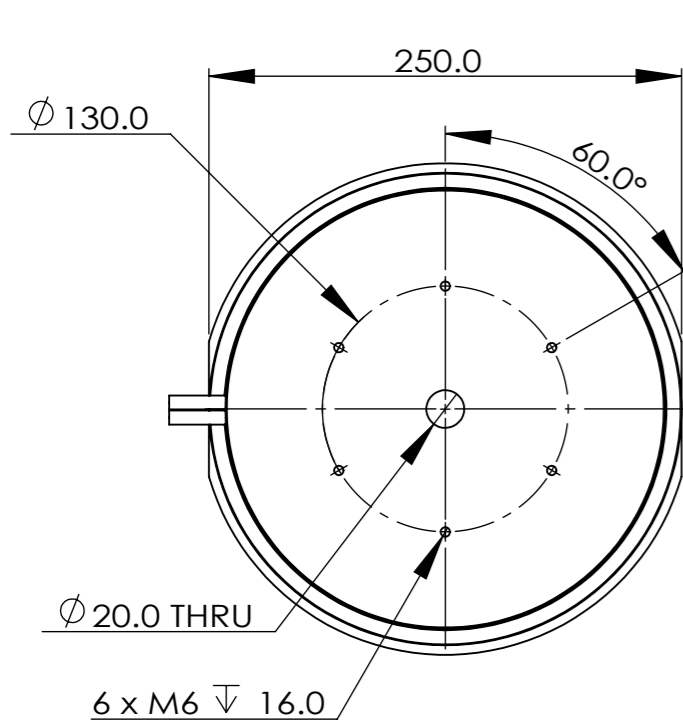
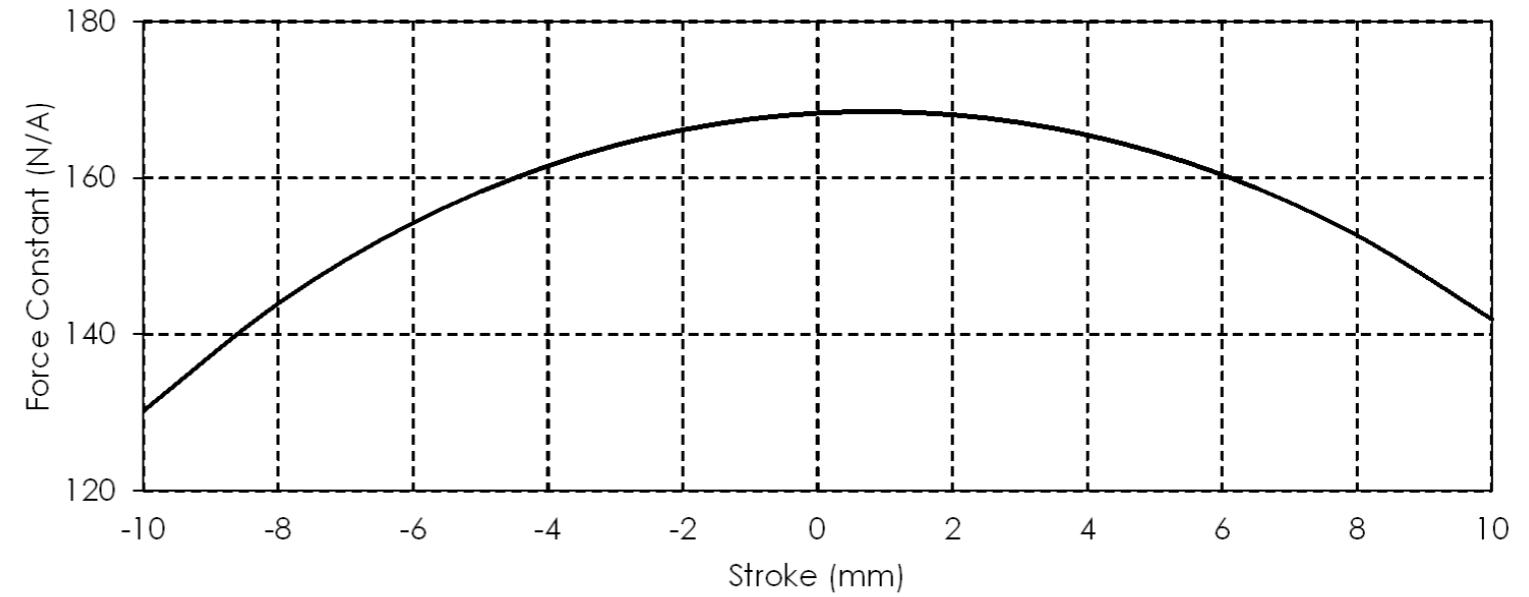
[3] Resistance is measured by DC current with 0.5 m lead wire.

[4] Inductance is measured by current frequency of 1 kHz.

The contents of datasheet are subject to change without prior notice.

AVM250-HF-20

REV	DESCRIPTION	BY	DATE	APPD
0	INITIAL RELEASE	WSM	2022/07/25	YX



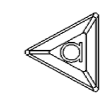
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UNLESS OTHERWISE SPECIFIED,
ALL DIMENSIONS IN mm
REMOVE ALL SHARP EDGES

GENERAL
TOLERANCE
X ± 0.25mm
X.X ± 0.1mm
X.XX ± 0.05mm
X.XXX ± 0.025mm



Designed	WSM	2022/07/25
Drawn	WSM	2022/07/25
Checked	YH	2022/07/25
Approved	YX	2022/07/25
Material	NA	
Surface Treatment	NA	
Heat Treatment	NA	
Quantity	NA	



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Model:	AVM250-HF-20_Customer Drawing
Title:	AVM250-HF-20_Customer Drawing
Dwg No:	AVM250-HF-20
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Rev:	0