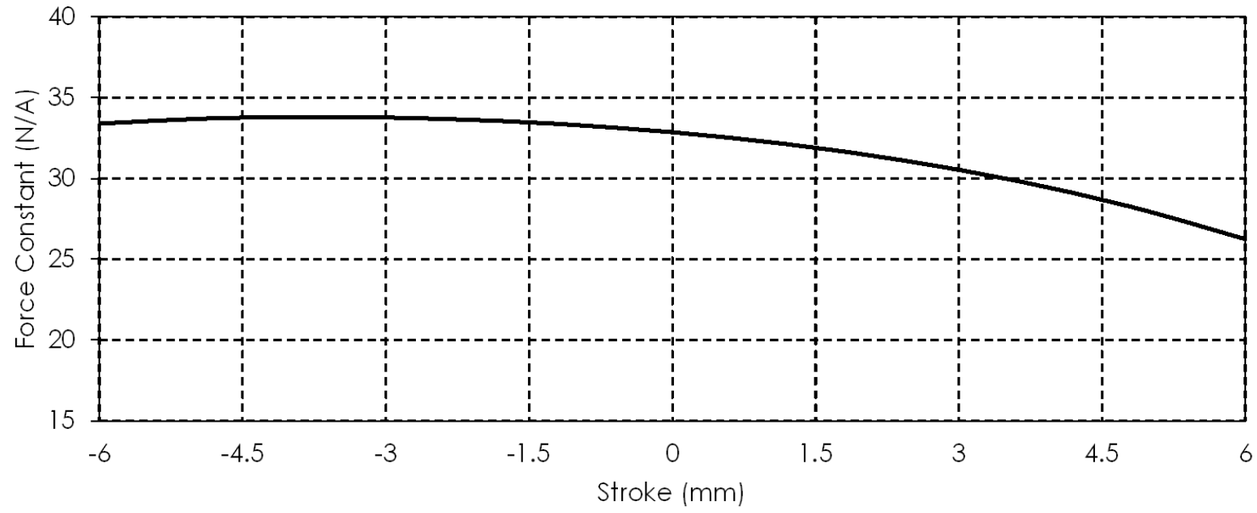
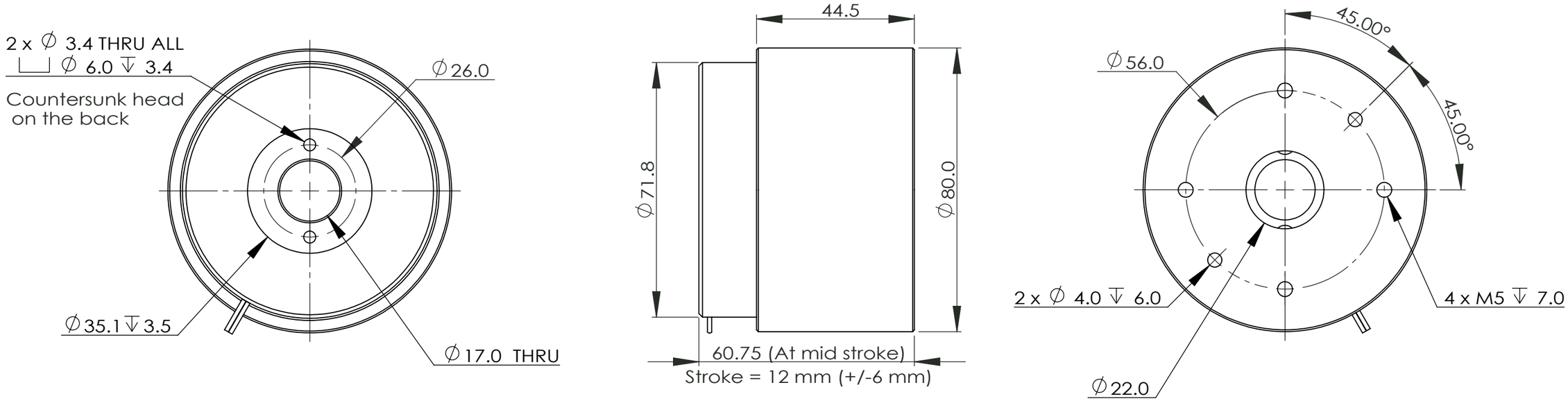
Performance Parameters	Symbol	Unit	AVM80-12
Stroke	S	mm	12.0
Continuous Force @100°C[1][2]	F_c	N	47.9
Peak Force[2]	F_{pk}	N	205.9
Force Constant ±10%[2]	K_f	N/A	32.8
Back EMF Constant ±10%[2]	K_e	V/(m/s)	32.8
Motor Constant @25°C[2]	K_m	N/Sqrt(W)	12.0
Resistance @25°C ±10%[3]	R_{25}	Ω	7.50
Inductance ±20%[4]	L	mH	4.10
Electrical Time Constant	τ_e	ms	0.55
Continuous Current @100°C[1]	I_c	A	1.5
Peak Current	I_{pk}	A	6.2
Continuous Power Dissipation @100°C[1]	P_c	W	20.6
Max. Coil Temperature	t_{max}	°C	100
Thermal Dissipation Constant[1]	K_{th}	W/°C	0.275
Max. Voltage	U_{max}	Vdc	60
Coil Mass	m_{coil}	g	235.3
Core Mass	m_{core}	g	1265.0
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.

REV	DESCRIPTION	BY	DATE	APPD
0	INITIAL RELEASE	WSM	2021/10/26	YX
1	Inductance Value Correction	WQY	2025/01/20	YX

AVM80-12





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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

3rd ANGLE PROJECTION

Designed	SL	2021/10/25
Drawn	WSM	2021/10/25
Checked	YH	2021/10/26
Approved	YX	2021/10/26
Material	NA	
Surface Treatment	NA	
Heat Treatment	NA	
Quantity	NA	

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Model:	AVM80-12_Customer Drawing
Title :	AVM80-12_Customer Drawing
Dwg No:	AVM80-12
Sheet:	1 OF1
Rev:	0