8	7		6
Performance Parameters	Symbol	Unit	AVM80-12
Stroke	S	mm	12.0
Continuous Force @100°C ^{[1][2]}	Fc	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	Te	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]	Pc	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.



AVM80-12

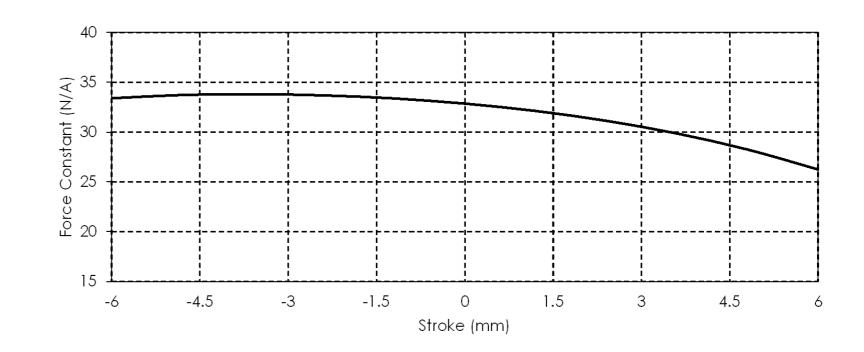
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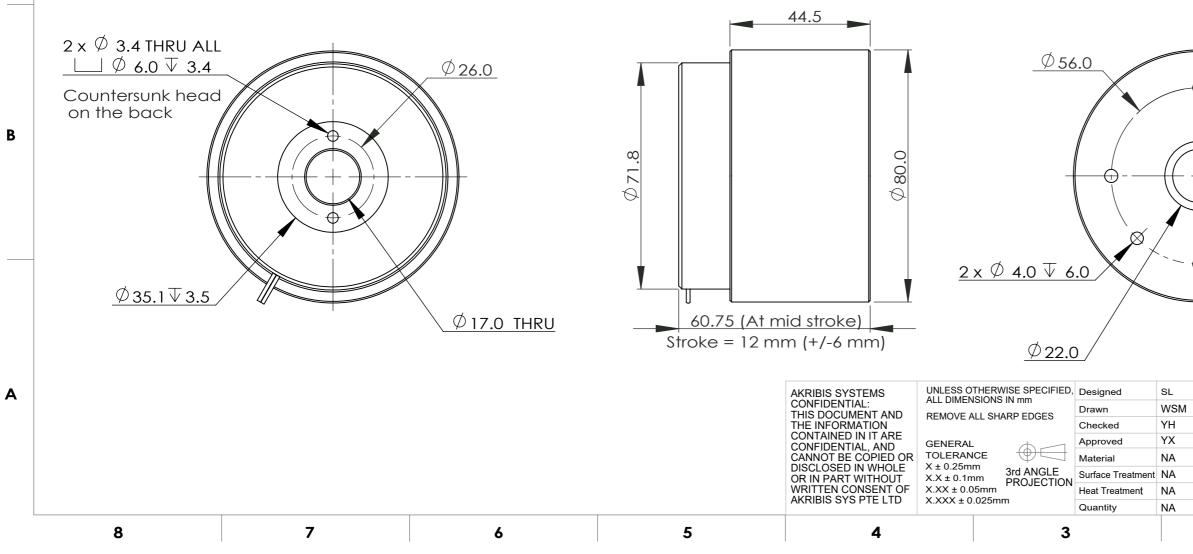
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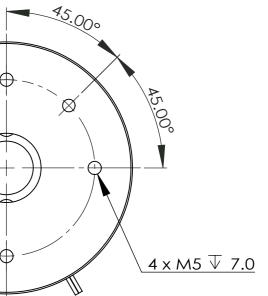
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DESCRIPTION	BY	DATE	APPD
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2021/10/26		Systems Pte Ltd	
2021/10/26	A.	©2004. All rights res	servea.
	Model:	AVM80-12_Customer	Drawing
	Title :	AVM80-12_Customer	Drawing
	Dwg No:	AVM80-12	
	Sheet:	1 OF1	Rev: 0