

AVA Series



Direct drive,

zero cogging,

zero backlash

voice coil motors

Low coil mass with and bandwidth

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very fast response coil and core movement low speeds with

Smooth motion at limitless resolution (depends on feedback device)

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Specifications

Model	Units	AVA 1-20	AVA 2-20	AVA 3-20
Stroke	mm	20	20	20
Force sensitivity (at mid stroke)	N/A	1.92	8.35	9.40
Back EMF constant	V/(m/s)	1.92	8.35	9.40
Continuous force (at 100 °C) $^{(1)}$	N	3.84	11.69	26.32
Peak force	N	11.5	35.1	79.0
Resistance 2	ohms	1.4	3.7	1.6
Inductance ²	mH	0.27	1.24	0.70
Voltage at peak force	V	24.0	24.0	24.0
Continuous current (coil at 100 °C)	A	2.00	1.40	2.80
Peak current	A	6.0	4.2	8.4
Max voltage	Vdc	60	60	60
Actuator constant	N/Sqrt(W)	1.61	4.37	7.43
Continuous power	W	5.68	7.15	12.54
Electrical time constant	ms	0.2	0.3	0.4
Mechanical time constant	ms	6.5	2.4	1.3
Clearance of coil	mm	0.60	0.60	0.60
Power at peak force	W	51.1	64.4	112.9
Thermal dissipation constant	W/°C	0.076	0.095	0.167
Max coil temperature	°C	155.0	155.0	155.0
Coil assembly mass	g	17.0	45.0	72.0
Core assembly mass	g	186.0	496.0	930.0





Dimensions

AVA 3-20

AVA 1–20

Voice Coil Mote





AVA -20





Voice Coil Motors

III-27 / III-28



Cable Length (m)

Stroke (mm)

0.5

20



Model & Stroke

Voice Coil Motors

