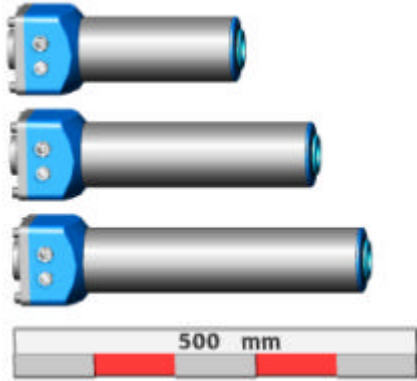


ADVANCED MOTION TECHNOLOGIES Inc

S60 Series ServoRam™



	Model No	S60C/72/23/MkII	S60C/108/21/MkII	S60C/144/19/MkII	S60C/198/16/MkII	S60C/234/14/MkII	S60C/270/12/MkII	S60C/306/10/MkII	S60C/120/6/MkII
Description	Rail Voltage								
Stroke Length (mm)	-	72	108	144	198	234	270	306	120
Magnet Sets	-	23	21	19	16	14	12	10	6
Peak Static Thrust (Newtons)	300V	1808	1650	1493	1260	1103	945	788	567
	600V	2892	2640	2388	2016	1764	1512	1260	756
Thrust at Continuous Rated Current	300V	362	330	299	252	220.5	189	158	94.5
Thrust Co-efficient (Newtons/A)	300V	241	220	199	168	147	126	105	63
Damping Coefficient (A/MS-1)	-	5.74	5.24	4.74	4	3.5	3	2.5	3.15
Peak Current (A)	300V	7.5	7.5	7.5	7.5	7.5	7.5	7.5	9
	600V	12	12	12	12	12	12	12	12
Continuous Rated Current (A)	300V	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Max Velocity (Ms-1 at zero thrust)	-	0.8	1.1	1.5	2.0	2.4	2.8	3	1.5
Efficiency (N/W)	-	3.83	3.49	3.16	2.67	2.333	2	1.67	2.1
Phase Resistance (Ohms)	-	21	21	21	21	21	21	21	10
Approximate Closed Length (mm)	-	651	651	651	651	651	651	651	393
External Diameter (mm)	-	85	85	85	85	85	85	85	85
Approximate Mass (Kgs)	-	21.0	20.3	19.7	18.7	18.1	17.5	16.8	10.2

Please note the forces shown above **ARE NOT REQUIRED TO SUPPORT A DEAD LOAD**. They are therefore fully available to manoeuvre it. The dead load is supported by the self-tuning gas spring, integral to the ram.

Gas Pressure (psi)	20	40	60	80	100	120	140
Load Supported (kg)	43	86	129	172	215	258	301
Load Supported (lbs)	95	190	285	380	475	570	665

It is important to note that a ServoRam™ should not be considered to be a direct replacement for a fluid ram in any machine application. The dynamic forces need to be distinguished from the static forces, so that the electro-magnetic part of the machine handles the precision dynamic actions, whilst the slowly changing and kinetic energy recycling actions are handled by the gas spring.



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