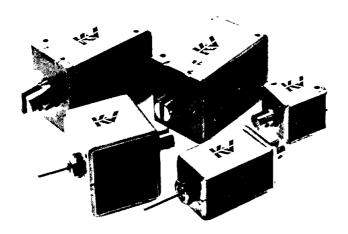
Solenoids

type SM

103-743/4 AND 103-746 CSA Certified Report LR 15089



- Class E (120 C) insulation for high temperature working
- Non-jam plunger design
- Coils easily interchangeable
- Suitable for most environments

These are robustly made strip-frame solenoids, with tapped holes on two faces for universal mounting. Types SM1 to SM4 are available in both ac and dc form, type SM5 is dc only They are available for pull or thrust operation and the design permits considerable application flexibility. All versions will operate up to 200 cycles per minute dependent on conditions of

Each type can be easily dismantled, and a variety of coil connections and impregnations are available to suit most environmental conditions. Each plunger moves within a nonmagnetic metal tube to avoid the possibility of jamming should the coil overheat and distort, for example due to a circuit fault

Standard Coil Voltages

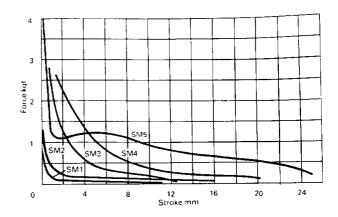
48/50, 110, 230/240V ac Continuous Rating 12, 24, 50, 110V dc Continuous Rating Greatly increased pull/thrust can be obtained at intermittent ratings Coils for operation at non-standard voltages are available to special order

Weight in grams

	····								
Туре	Total	Plunger							
SM1	135	21 3							
SM2	193	28 4							
SM3	397	35 4							
SM4	610	49 5							
SM5	815	120 1							

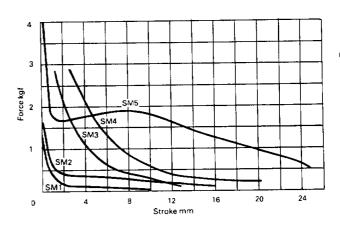
DC Continuous Rating

Type	Max Stroke mm	Pull at Max Stroke gf	Approx Watts	Max Volts
SM1	95	42	44	100
SM2	16 0	28	60	∠00
SM3	143	28	85	250
SM4	22 0	85	10 2	250
SM5	25 0	198	128	250



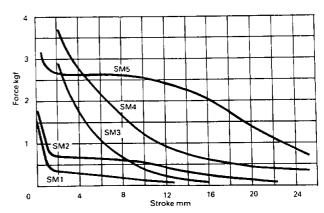
DC 50% Rating

-					
	SM1	95	99	88	100
	SM2	16 0	127	12 0	250
	SM3	14 3	142	17 0	250
	SM4	22 0	226	20 4	250
	SM5	25 0	538	25 6	250
	1				<u> </u>



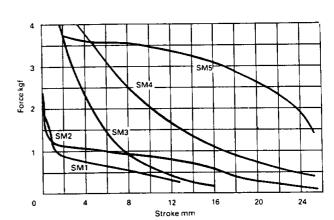
DC 25% Rating

SM1	12	100	18	250
SM2	22	100	24	250
SM3	16	100	34	250
SM4	25	300	41	250
SM5	25	700	52	250
l l			1	



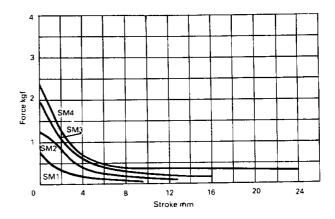
DC 10% Rating

SM1	12	300	44	250
SM2	24	125	60	250
SM3	16	200	85	440
SM4	25	400	102	440
SM5	25	1500	128	440
		<u> </u>	<u> </u>	<u> </u>



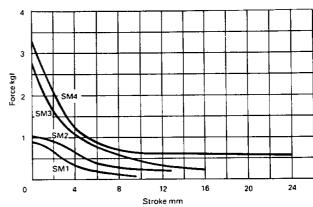
AC Continuous Rating at 50Hz

Тур	е	Max Stroke mm	Pull at Max Stroke gf	Approx VA Inrush at Max Stroke	Approx VA Closed	Max Volts
SM	11	95	28	17	60	250
SM	12	16 0	56	33	10 0	250
SM	13	14 3	255	50	12 0	250
SM	14	25 0	311	95	18 5	440
1						



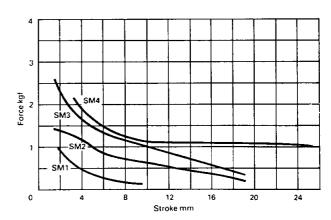
AC 50% Rating at 50Hz

SM1	95	56	30	12 0	250
SM2	16 0	113	44	17 5	250
SM3	143	397	84	24 0	440
SM4	25 0	538	168	35 0	440
1					



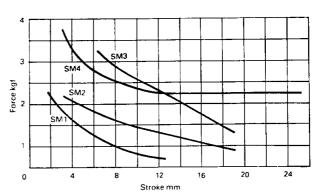
AC 25% Rating at 50Hz

SM1	12	100	58	21	250
SM2	19	250	75	30	250
SM3	19	350	148	41	440
SM4	25	1000	280	60	440
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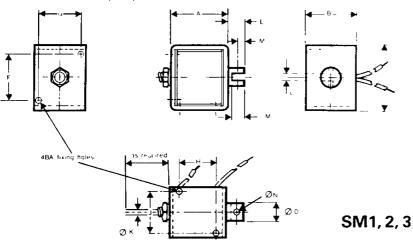


AC 10% Rating at 50Hz

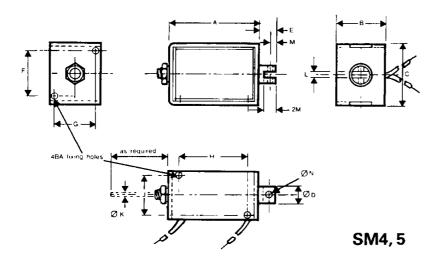
SM1	13	150	140	52	250
SM2	19	400	160	60	250
SM3	19	800	300	115	440
SM4	25	1750	600	200	440







Type	Α	В	С	D	E	F	G	н	J	к	Ļ	М	N
SM1	33 3	25 4	31 8	11 1	12 7	18 3	17 5	19 1	17.5	2 4	3 6	4 8	2 4
	(1 31)	(1 00)	(1 25)	(0 44)	(0 50)	(0 72)	(0 69)	(0 75)	(0.69)	(0 09)	(0 14)	(0 19)	(0 09)
SM2	52 4	25 4	31 8	11 1	12 7	18 3	17 5	38 1	17 5	2 4	3 6	4 8	2 4
	(2 06)	(1 00)	(1 25)	(0 44)	(0 50)	(0 72)	(0 69)	(1 50)	(0 69)	(0 09)	(0 14)	(0 19)	(0 09)
SM3	42 9	39 7	49 2	12 7	12 7	34 9	31 8	28 6	31 8	3 2	3 6	4 8	2 4
	(1 69)	(1 56)	(1 94)	(0 50)	(0 50)	(1 38)	(1 25)	(1 13)	(1 25)	(0 13)	(0 14)	(0 19)	(0 09)
SM4	68 3	39 7	49 2	12 7	12 7	34 9	31 8	54 0	31 8	3 2	3 6	4.8	2 4
	(2 69)	(1 56)	(1 94)	(0 50)	(0 50)	(1 38)	(1 25)	(2 13)	(1 25)	{0 13}	(0 14)	(0.19)	(0 09)
SM5	66 7 (2 63)	39 7 (1 56)	54 0 (2 13)	17 5 (0 69)	20 6 (0 81)	34 9 (1 38)	31 8 (1 25)	47 6 (1 88)	31 8 (1 25)	3 2 (0 13)	48	6 4 (0 25)	3 2 (0 13)



When ordering, please specify the following

Type e g SM3
Pull or Thrust
Special coil treatment
Voltage, dc/ac, frequency
Rating, e g continuous
Projection required, (thrust
type) i.e from frame to end of
thrust rod, with plunger closed

When ordering spare coils state voltage, frequency (if applicable) and rating required

Technical Advice

Because the choice of solenoid for a particular application can be a complex process, the Keyswitch Varley Technical Advisory Service is always available to help in providing the most economical solution to your problem. The service is entirely free. Simply complete and mail the Solenoid Questionnaire, or contact us by telephone or telex stating your requirements.

December, 1982



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