D3 Series

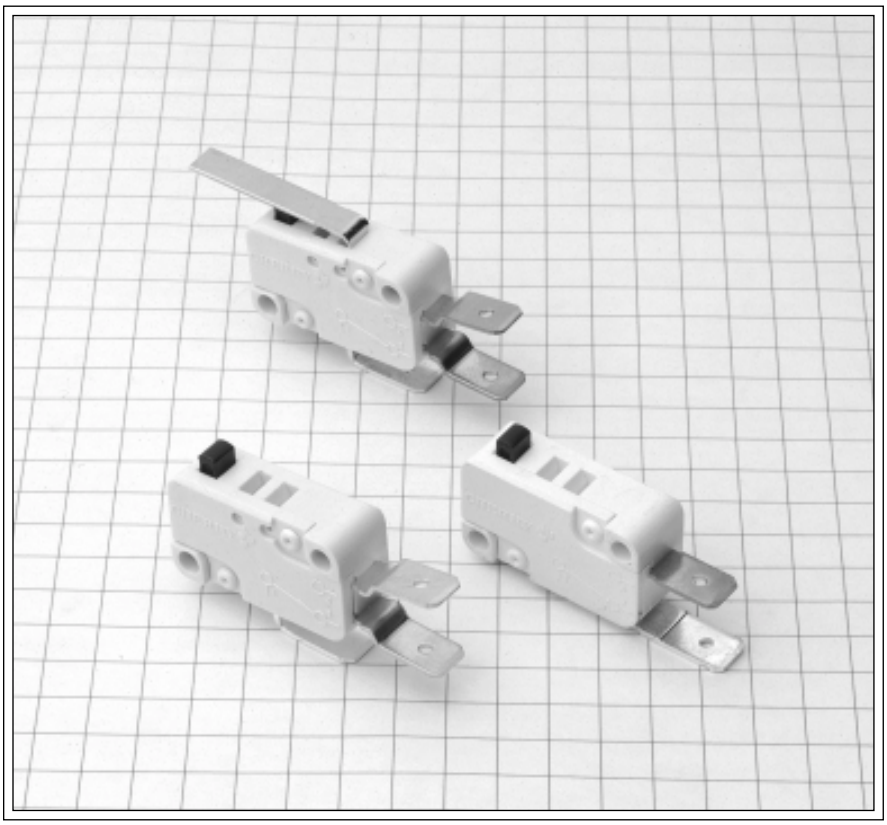
Miniature

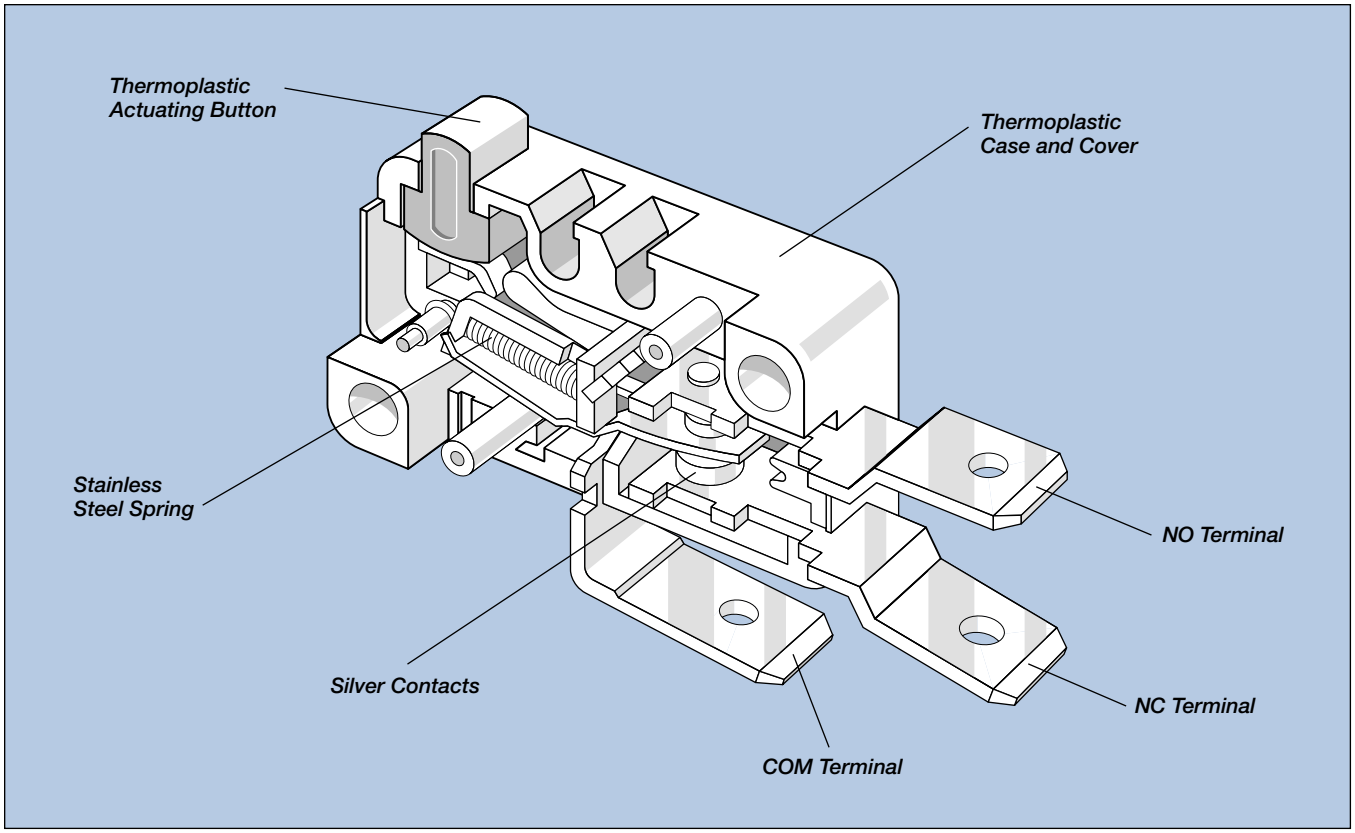
D36 4 amp
D37 10 amp
D38 16 amp

Features

- **For applications with in-rush currents**
- **Also suitable for more than 16 amp loads resp. up to 400V**
- **Long mechanical operating life**
- **For light and standard operating force**
- **>3mm contact gap available**

on request

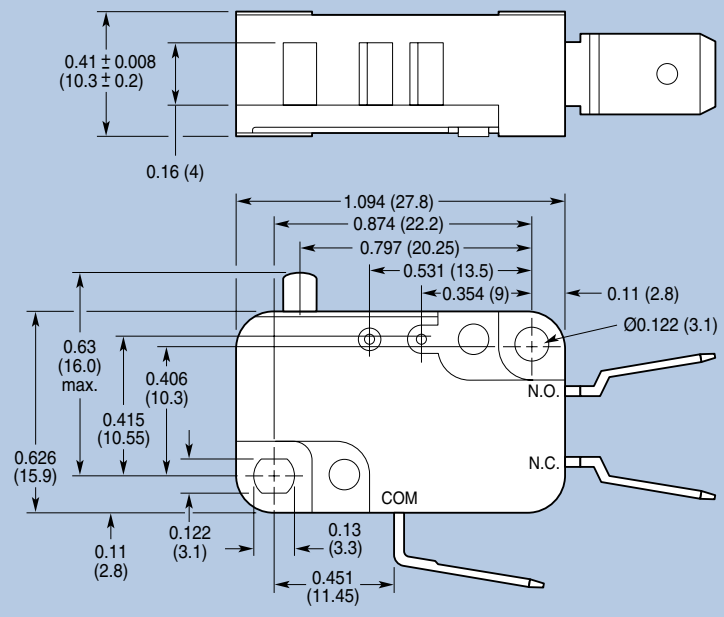




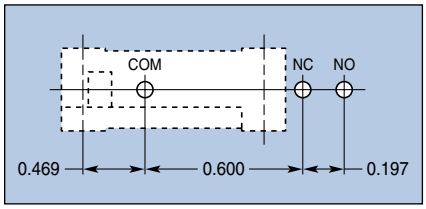
D3 Series

Miniature

Dimensions: Inches (mm)



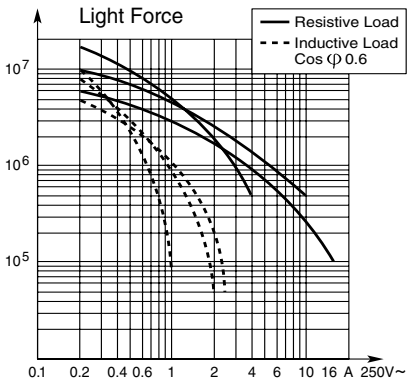
PCB Footprint

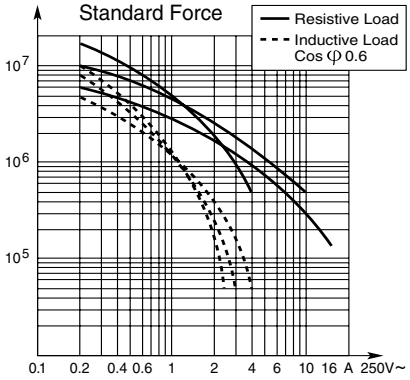


Contacts and Ratings

Series	Agency Approval	Light Force	Standard Force	Contact Material
D36	VDE 0630	4(1) amp, 250V~	4(2.5) amp, 250V~	Silver Cadmium Oxide
D37		10(3) amp, 250V~	10(2) amp, 250V~	Silver Cadmium Oxide
D38		16(4) amp, 250V~ 10(3) amp, 400~	16(2.5) amp, 250V~ 10(1.5) amp, 400~	Silver Cadmium Oxide
D36	UL 1054	4 amp, 250 VAC	4 amp, 250 VAC	Silver Cadmium Oxide
D37		10 amp,1/2HP 125-250VAC	10 amp, 1/2HP 125-250VAC	Silver Cadmium Oxide
D38		16 amp, 125-250VAC 1HP, 125VAC 2HP, 250VAC	16 amp, 125-250VAC 1HP, 125VAC 2HP, 250VAC	Silver Cadmium Oxide

Electrical Life Charts



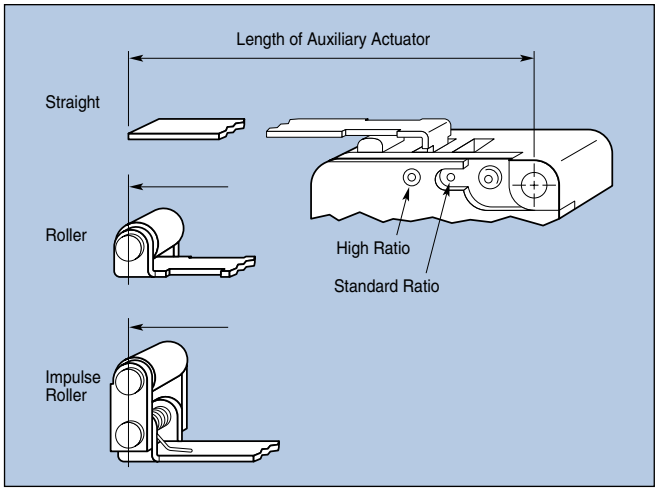


Electrical Specifications/Life

Mechanical Life	Up to 20 x 10^6 operations (100% overtravel)
Electrical Life	See charts to right
Temperature Rating*	-40° to +85°C
Flammability Rating	UL94V-O

* Special series for higher temperature available upon request.

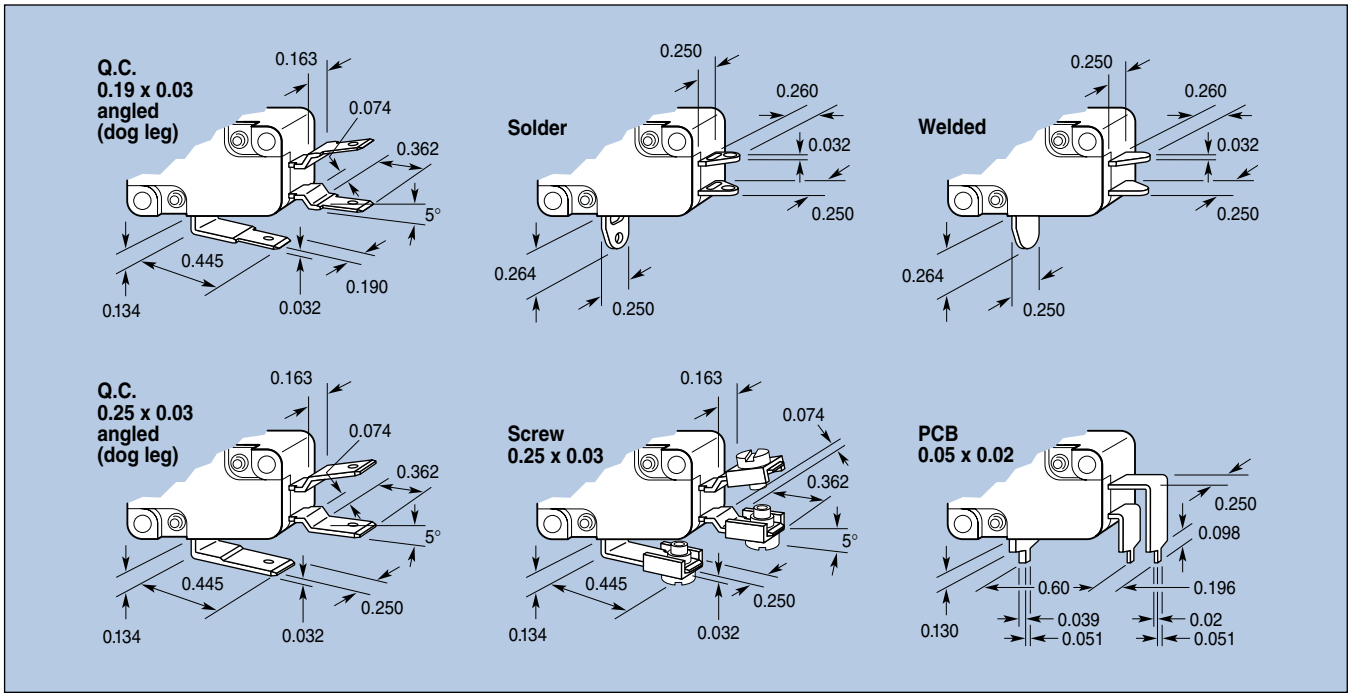
Auxiliary Actuator



Materials

Case and Cover	Thermoplastic Nylon/Polyester
Actuating Button	Thermoplastic Nylon/Acetal
NO, NC Terminals	Copper
COM Terminals	Brass
Contacts	Silver Cadmium Oxide
Blade	Copper Beryllium
Spring	Stainless Steel
Auxiliary Actuator	Aluminium, Stainless Steel or Cold-rolled Steel (nickel plated)

Terminals



D3 Series

Miniature

Characteristics

Series	Operating Characteristics		Force	Without Auxiliary Actuator	Auxiliary Actuator – Straight: Length A, Standard Ratio	Length A, High Ratio	Length D, Standard Ratio	Length D, High Ratio	Length L, Standard Ratio	Length L, High Ratio
D36	Pretravel max.	(in)		0.071	0.071	0.087	0.110	0.189	0.291	0.425
D37	Over Travel min.	(in)		0.031	0.031	0.055	0.087	0.150	0.244	0.370
D38	Movement Diff. max.	(in)		0.016	0.016	0.016	0.024	0.031	0.047	0.063
	Operating Point	(in)		.579±.020	.606±.020	.606±.031	.606±.047	.606±.063	.606±.110	.606±.126
	Rest Position max.	(in)		0.630	0.661	0.740	0.771	0.850	0.970	1.13
D36	Operating Force max.	(gms)	Standard	170	170	120	75	48	35	22
			Light	60	60	38	28	18	15	10
D37	Operating Force max.	(gms)	Standard	250	250	160	105	70	45	30
			Light	120	120	95	60	42	25	18
D38	Operating Force max.	(gms)	Standard	380	380	270	190	110	75	48
			Light	170	170	120	85	55	35	25

Ordering Information

D3 6 3 Q 3 L D

Series/Prefix

CODE	Temp. Index	Oper. Force	Contact Configurations N.O.	N.C.	N.O. N.C.
	T85	Std.	1	2	3
		Light	7	8	9

CODE	Terminal Type
S	Solder w/ temp stop
Q	0.19 x 0.03 Q.C.
V	0.25 x 0.03 Q.C.
W	Screw
A	Welded
P	PCB

CODE	Terminal Config.
1	
3	
4	
9	

CODE	Actuator	Pivot Position	Actuator Length A	D	L
AA	Button	—	—	—	—
L	St/Al strt	SR	0.835	1.40	2.75
M	St/Al strt	HR	1.01	1.58	2.93
	Actuator material Al for D36 Light operating force (Terminal arrangement 7", 8", 9")				
J	Stainless Steel	SR	0.831	1.40	2.75
K	Straight	HR	1.01	1.58	2.93
R	Roller	SR	0.811	1.34	–
T	Roller	HR	0.988	1.44	
G	Impulse	SR	0.811	1.34	–
N	Roller	HR	0.988	1.44	–
S	Simulated	SR	–	–	–
U	Roller	HR	–	–	–

SR – Standard Ratio
HR – High Ratio

CODE	Current Ratings VDE		Opererating Force Max. cN Std. Force	Light Force
6	4 (1) amp 250 V ~		–	60
	4 (2.5) amp 250 V ~		170	–
7	10 (2) amp 250V ~		–	120
	10 (3) amp 250 V ~		250	–
8	16 (2.5) amp 250 V ~	10 (1.5) amp 400 V ~	–	170
	16 (4) amp 250 V ~	10 (3) amp 400 V ~	380	–

Terminals	
Type of Terminal	Terminal Config.
A. S	1
Q. V	3
P	4
W	9