

V4 Snap-action Switches *Up to 5A 250Vac*



- ▶ Snap action switches
- ▶ Ratings up to 5A, 250Vac
- ▶ Industry standard V4
- ▶ Changeover, NO or NC function
- ▶ Choice of terminals and actuators
- ▶ Further options include gold plated contacts, levers and terminals



5A 125Vac, 3A 250Vac 5E4



5A 125/250Vac UL file no. E45221



RoHS compliant by 3rd qtr 2005

μ contact gap.

P V4 1 0 N 01 23 AAA

TERMINAL SWITCH SERIES VARIANT FUNCTION LEVER POSITION LEVER SHAPE OPERATING FORCE OTHER FEATURES

TERMINAL	SWITCH SERIES	VARIANT	FUNCTION	LEVER POSITION
<p>P</p> <p>6.0 7.6 1.65 2.8 x 0.5</p>	V4	1 Standard T85	<p>0</p> <p>CO ON-(ON) (momentary 1 side)</p>	A Standard ratio
<p>T</p> <p>3.2 3.4 Solder</p>				
<p>X</p> <p>1.2 4.0 PCB</p>				
<p>D</p> <p>4.8 8.4 RH PCB</p>				
<p>J</p> <p>4.8 8.4 LH PCB</p> <p>Viewed from non plunger end (NC terminal end)</p>				



PV410N9908



XV410A1023



JV410N0016



DV410A0323



XV410A0623



PV410N0016

LEVER SHAPE

OP. FORCE

00 No lever

01 03 Plain lever

06 Roller lever

10 Snake lever

99 Domed actuator

(without lever)

08 80gms

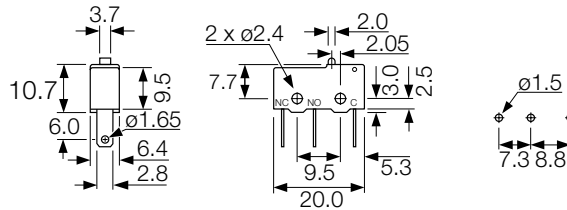
16 160gms

23 230gms

	01	03	06	10
Dim H	12.4	13.2	17.5	21.0
Dim L	18.5	24.8	16.5	39.4

Many alternative actuators are available
Contact factory for details

DIMENSIONS (mm)



TECHNICAL DATA

Mechanical life	>1 million operations
Temperature rating	T85°C
Insulation resistance	>1000MΩ
Tracking resistance	175V
Contact Gap	0.5

MECHANICAL DATA

High at rest point**	9.0
Trip point**	8.4 ±0.3
Pre-travel	0.6 (max)
Movement differential	0.2 (max)
Overtravel	0.5 (min)

**Measured from fixing hole centres to top of plunger

MATERIALS

Body, lid & Plunger	Thermoplastic UL94V-0
Plunger	Thermoplastic UL94V-0
Terminals	Plated brass
Moving contact arm	Phosphor bronze
Spring	Stainless steel
Contacts	Fine silver
Actuator/roller	Stainless steel

V3 Snap-action Switches *Up to 16(4)A 250Vac*



- ▶ Snap action switches
- ▶ Ratings up to 16A, 250Vac
- ▶ Industry standard V3
- ▶ Changeover, NO or NC function
- ▶ Choice of terminals and actuators
- ▶ Further options include gold plated contacts, lever types and terminal options



16(4)A 250Vac 50E3



16A 125/250Vac 3/4hp T85 50E3 UL file no. E45221
125V 1/2 HP, 250V 3/4 HP, 0.4A 125Vdc, 0.2A 250Vdc



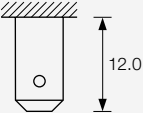
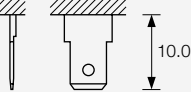

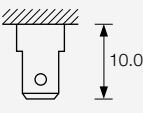

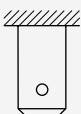


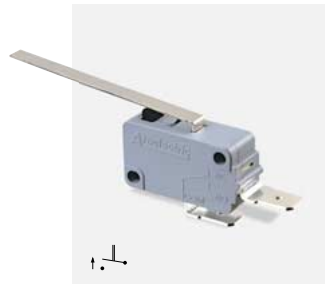
RoHS compliant by 3rd qtr 2005

μ contact gap.

C V3 1 1 A 01 35 AAA

TERMINAL SWITCH SERIES VARIANT FUNCTION LEVER POSITION LEVER SHAPE OPERATING FORCE OTHER FEATURES

▶ TERMINAL	▶ SWITCH SERIES	▶ VARIANT	▶ FUNCTION	▶ LEVER POSITION			
T  Solder	V3	1 Standard T85	0  CO ON-(ON) (momentary 1 side)	A Standard ratio			
C  6.3 x 0.8							
E  4.8 x 0.5					1  NO (ON) - OFF (momentary ON)	B High ratio	
H  4.8 x 0.8					2 High Temperature T125	2  NC ON - (OFF) (momentary OFF)	N No lever
L  RAST5 3 x 6.3 tabs on 5mm pitch							



CV311A0420



CV311N0005



TV311A0316



LV310N0010



CV312A1335



CV310N0010

LEVER SHAPE

00 No lever

01 **02** **04** Plain lever

03 Snake lever

12 **13** Roller lever

	01	02	03	04	12	13
Dim A	16.9	18.6	21.5	21.8	22.3	24.0
Dim B	24.2	35.7	32.7	59.2	21.5	34.0

OP. FORCE

without lever

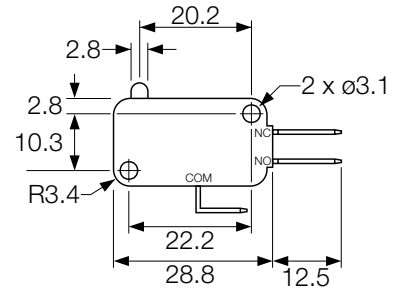
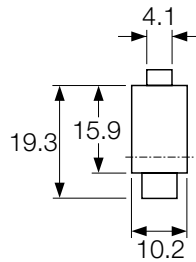
05 55gms

10 100gms

20 200gms

35 350gms

DIMENSIONS (mm) (3 terminals shown)



TECHNICAL DATA

Mechanical life	>1 million operations
Operating Temperature	-25°C to +85°C
Insulation resistance	>1000MΩ
Tracking resistance	175V
Contact gap	0.6 (min)

MECHANICAL DATA

High at rest point**	15.9
Trip point**	14.7 ±0.5
Pre-travel	1.2 (max)
Movement differential	0.4 (max)
Overtravel	1.25 (min)

**Measured from lower hole centre to top of plunger.

MATERIALS

Body, lid & Plunger	Thermoplastic UL94V-0
Terminals	Plated brass
Moving contact	Phosphor bronze silver plated
Spring	Beryllium copper
Contacts	Fine silver
Actuator/roller	Stainless steel

Many alternative actuators are available. Contact factory for details.

Safety Cut-out Switches 16A 250Vac



- ▶ Safety cut-out switches
- ▶ Ratings up to 16A, 250V ac
- ▶ Snap action switches
- ▶ NC contacts
- ▶ Pendulum or lever tilt operation

Safety requirements for Portable Heaters can be met by the fitting of a safety cut-out switch. The heater will then turn off if overturned.



C0320AA
15A 125/250Vac UL file no. E91274



C0320BB
16A 125/250Vac T85 50E3
16A 250Vac 3/4hp T85 125Vac 1/2hp UL file no. E45221



RoHS compliant by 3rd qtr 2005

μ contact gap.

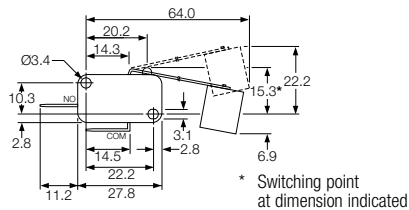
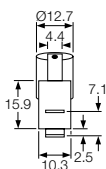
C0320AA - - -

TERMINAL FUNCTION ACTUATOR MOUNTING

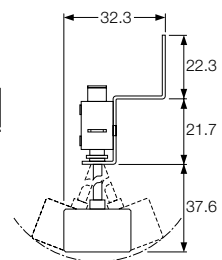
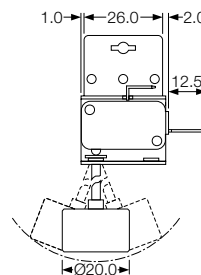
ORDER CODE	TERMINAL	FUNCTION	ACTUATOR	MOUNTING
C0320AA		 ON - OFF (momentary OFF)		 2 off 3.4mm mounting holes or M3 screw holes
C0320BB		 ON - OFF (momentary OFF)		 3 holes Ø3.0

Dimensions (mm)

C0320AA



C0320BB



Switch actuating point 40° in any direction off vertical