Burgess

V12 Series General Purpose Micro Switches

Robust and quickly installed, these standard-size, changeover, snap-action switches meet many requirements in domestic appliances, office equipment and factory machines.



Plunger actuator



Normal action plain lever actuator



Wedge-shaped internally-pivoted cam following actuator



Normal action lever with free-running roller

Construction

Mechanism

Single-pole, snap-action, changeover, with a coil spring energy store. Contacts: Silver (moving), silver cadmium (fixed).

Enclosure

Phenolic case and lid mouldings.

Actuators

Moulded plunger or wedge shaped, internally pivoted cam follower. Stainless steel levers, with or without free-running plastic roller.

Terminals

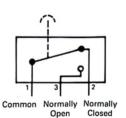
Down-pointing, brass 6.3 mm quick connect tabs.

Installation and Service

Mounting

By side-mounting holes using two M3.5 or #6 screws.

Diagram of Connections



Environmental Data

The terminals are exposed and should be protected after installation. The mechanism is enclosed to IP40 standard. The recommended continuous working temperature limits are -10° and $+85^\circ\text{C}.$

Service

Check regularly for cleanliness and wear.

Electrical Ratings

Ratings in the following table are in amperes and are recommended maxima. The abbreviations NO and NC refer to the normally open and normally closed terminals.

Voltage	Resistive	Tungsten Lamp Load		Inductive
	Load	NC	NO	Load
AC				
125	15	3	1.5	15
250	15	2.5	1.5	15
380	10			5
480	5			4
DC				
Up to 15	15	3	1.5	10
30	5	3	1.5	5
50	1 1	0.8	0.8	0.5
75	0.75	0.6	0.6	0.3
125	0.5	0.5	0.5	0.05
250	0.25	0.25	0.25	0.03

Approvals

All models in the series are approved by BEAB. Additionally the plunger and cam-following actuated models have UL and CSA approvals. SEMKO has approved the plunger actuated model.

Cross References

K5 series higher rated double-break switches – see opposite and pages 157-158. TPS series door actuated assemblies using V12 switches – pages 73 and 193-194.

V12KR



Actuator

Normal action lever with free-running roller

Mechanism

Single-pole, changeover

Terminals Three 6.3 mm (0.25 in) quick-

connect tabs

Recommended maximum 15A **Electrical Rating**

on 125 or 250 Vac.

Full ratings on page 54

34.3 mm 1.35 in Free Position (max) 32.5 1.28 in **Operating Position**

±1.3 mm

Movement Differential (max) 0.8 mm 0.03 in Available Overtravel Depress to case 9 ozf Actuating Force (max) 2.5 N0.28 N Release Force (min) 1.0 ozf

In excess of 10 million Mechanical Life

operations

Mechanism: IP40 Enclosure

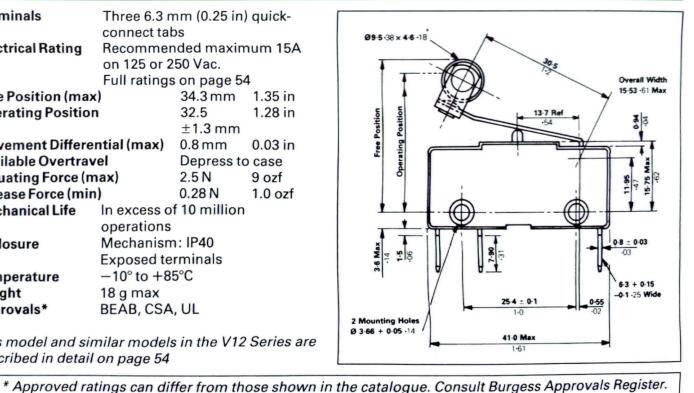
Exposed terminals

-10° to +85°C **Temperature**

Weight 18 g max

Approvals* BEAB, CSA, UL

This model and similar models in the V12 Series are described in detail on page 54



¹⁵⁶