

3BR

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- Characteristics
- choice of IP54 or IP67 sealed versions
 - precise movements
 - screw terminals
 - pre-wired option
 - long overtravel

Rating 250 VAC, 10 A max.

Dimensions (mm) 53.1 × 20.6 × 30.8

Actuator ■ plunger

Approvals UL, CSA



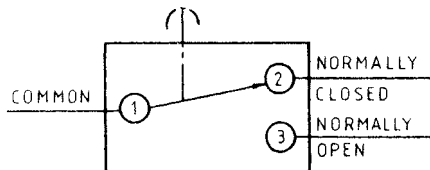
Preferred Range

Ordering Reference	Actuating Force (N)	Actuating Force (ozf)	Sealing	Operating pos. (mm)	Operating pos. (in)	Terminal	Circuit	Actuator	Contacts	Electrical rating
3BR103	7,2	26,00	IP54	39,3	1,55	Screw	CO	Plunger	Ag	Up to 125 VAC, 10 A
3BR510	7,2	26,00	IP67	39,3	1,55	Screw	CO	Plunger	Ag	Up to 125 VAC, 10 A

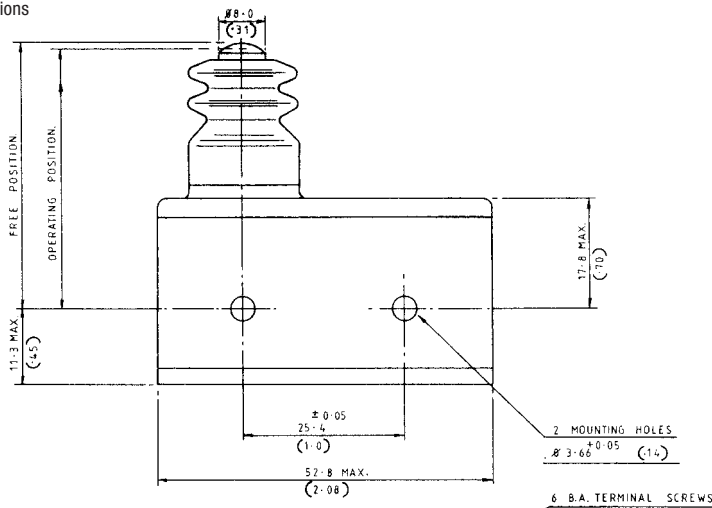
Specifications

Housing	Phenolic
Plunger	Stainless steel
Cowl	Silicone rubber
Mechanism	Single pole change-over
Contacts	Silver
Terminals	Screw terminals with captive washers
Temperature	-10°C to +85°C
Mechanical life	10 ⁶ cycles minimum (impact free actuation)
Protection	3BR / 510 IP67 / 3BR103 IP54 (enclosure)
Mounting	Side mounting

Circuit diagram



Dimensions



Recommended maximum electrical ratings

Voltage (max)	Load (A)	Horsepower	Approval
250 VAC	5 (0.75 pf)	-	CSA 22.2 No. 55 - 6,000 operations
125 VAC	10 (0.75 pf)	-	CSA 22.2 No. 55 - 6,000 operations
250 VAC	-	¼ HP (0.45 pf)	CSA 22.2 No. 55 - 6,000 operations
125 VAC	-	¼ HP (0.45 pf)	CSA 22.2 No. 55 - 6,000 operations
0 - 15 VDC	10	-	General rating - 50,000 operations
15 - 30 VDC	5	-	General rating - 50,000 operations

Operating Characteristics

Actuator	Reference	Actuating Force Maximum		Release Force Minimum		Free Position Maximum		Operating Position		Movement Differential Maximum		Overtravel	
		(N)	(ozf)	(N)	(ozf)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
Plunger	3BR103	7,2	26,00	1,7	6	40,8	1,6	39,3 ± 0.4	1,55 ± 0.016	0,08	0,003	4,6	0,18

Ordering Reference

Basic type	3BR	Example: 3BR SH
Environmental sealing	SH 103 510	Sealed terminals with horizontal exiting 500 mm cables IP67 Sealed to IP54 Sealed to IP67
Special Features	/□□□□	Burgess specialise in customer specific solutions. Additional product variants are available or can be provided. If your requirements cannot be satisfied from the options listed, please contact www.saia-burgess.com or your local SB outlet.