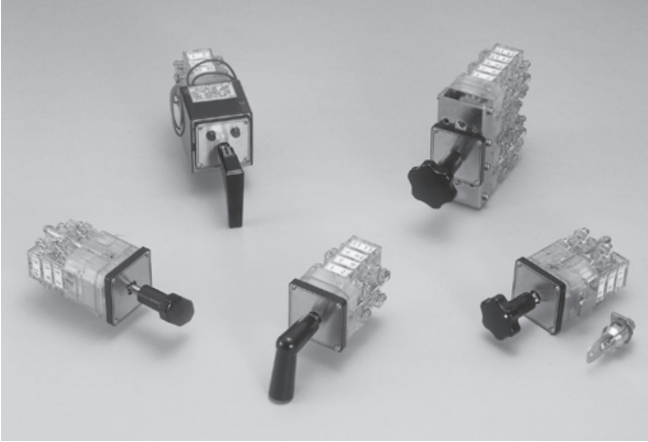




CAM-OPERATED SWITCH

B TYPE, BH TYPE



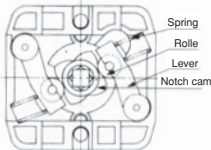
INDEX FOR B / BH TYPE CAM-OPERATED SWITCH

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FEATURES

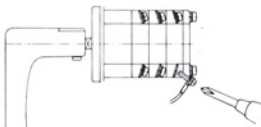
■ Heavy-duty mechanical durability against high-frequent switching

Since the optimal layout of components and by using materials with high wear resistance for the mechanical section, it can be provides accurate operation feeling and durability against high-frequent switching up to 5 million times.



■ The terminal arrangement greatly improves wiring efficiency

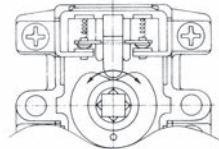
No up-screw terminal is adopted. It can be quickly wired from the back for the alternate terminal arrangement.



■ Capability both compact body and high breaking capacity and yet greatly improved breaking capacity

Larger breaking capacity of the switches generally requires that the main body enlargement. However, Fuji's control switches has achieved downsizing while increasing the breaking capacity. This breakthrough has been made possible by optimally designing the cam shapes and the angle of the movable contact parts for obtaining max. switching speed mechanically.

This allows you to determine the setting values (voltage and current) with allowance.

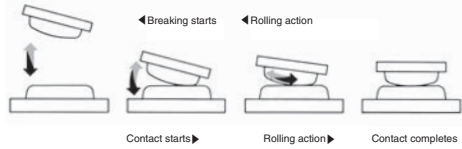


■ High-performance engineering plastics ensure high quality and high reliability

For the body, polycarbonate resin is used, which has a high level of performance among engineering plastics. The material greatly improves strength and resistance against environment (temperature, humidity, vibrations, etc.), which are particularly important for the applications related to heavy electric machineries. The contacts and mechanical parts are transparent to facilitate checking the contacting part.

Rolling action of contact mechanism improves contact stability

In the contact mechanism, the movable contact makes contact with the stationary contact at one point and then gradually increases the contact area while rolling on it. This rolling action minimizes the part exposed to the arc that is generated at the first contact or breaking, thereby maintaining much higher contact stability than the former product.



SPECIFICATIONS (RATINGS, PERFORMANCE)


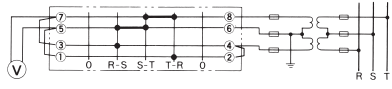

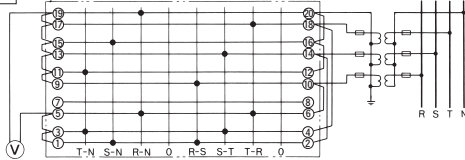
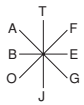
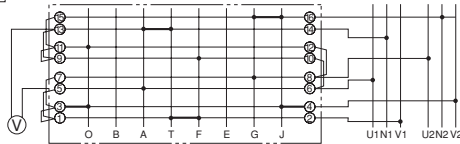
Specification	Type	B TYPE	BH TYPE
Rated insulation voltage (UI)		600V (250V for rear terminal type and Lamp circuits of indicator lamp type)	
Rated current-carrying capacity (Ith)		20A	
Max. wire size		5.5mm ²	
Screw size		M4×9	
Withstand voltage		2,500V AC / 1 min.	
Lightning impulse		Between the charging department lume vs ground ±7kV (1.2 / 50µs), Between the charging department mutuality ±4.5kV	
Contact resistance		50mΩ or less	
Mechanical life		5,000,000 operations or more, Class 1 (100,000 for pull and push contact)	
Electrical life		500,000 operations or more, Class 1 (50,000 for pull and push contact)	
Shock resistance		500m/s ² or more (6 directions)	
Vibration resistance		Range of vibration : 10 to 150Hz, Acceleration : 20m/s ² , Time : 1 hour (3 directions)	
Min. power requirements		5V AC 100mA, 5V DC 100mA (operating environment must be good)	
Operating temperature		-20 to 60°C (Do not freeze)	
Storing temperature		-40 to 70°C (Do not freeze)	
Altitude		2,000 m or less	

Breaking capacity [electrical life of 500,000 operations (class 1)]

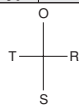
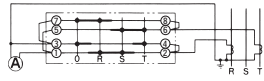

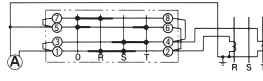
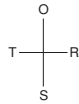
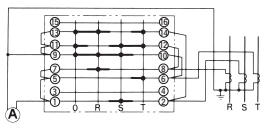
AC			DC				
Rated voltage (V)	Rated operating current (resistance load) (A)	Rated operating current (inductive load) (A)	Rated voltage (V)	Rated operating current (resistance load) (A)	Rated operating current (inductive load) (A)	2 contacts used in series Rated operating current (resistance load) (A)	2 contacts used in series Rated operating current (inductive load) (A)
110	20	15	24	15	10	20	20
220	15	10	48	10	6	18	15
440	4	3	110	3	1.5	4.5	4
—	—	—	220	1.2	0.8	2	1.5

* Inductive load: For AC: Power factor 0.6 to 0.7 (Class: AC11)
For DC: Time constant 40±6 ms (Class: DC12)

a) For voltmeter (standard handle: HDP)

<p>Type V2E</p>  <p>Nameplate No. 54-557 (E)</p>	<p>3-phase, 3-wire, 2-PT</p> 
<p>Type V5W</p>  <p>Nameplate No. 54-850 (E)</p>	<p>3-phase, 4-wire, 3-PT</p> 
<p>Type V4O-2</p> 	<p>single 3-wire, 2-PT</p> 

b) For ammeter (standard handle: HDP)

<p>Type A2</p>  <p>Nameplate No. 54-755 (E)</p>	<p>3-phase, 3-wire, 2-CT</p> 
<p>Type C2</p>  <p>Nameplate No. 54-495 (E)</p>	<p>3-phase, 3-wire, 2-CT</p> 
<p>Type A4</p>  <p>Nameplate No. 54-755 (E)</p>	<p>3-phase, 3-wire, 3-CT</p> 


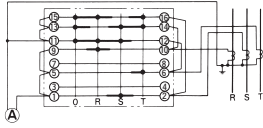

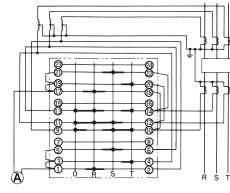

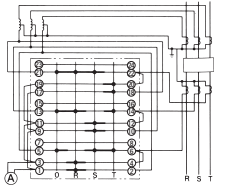

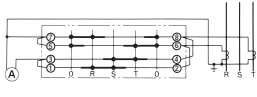

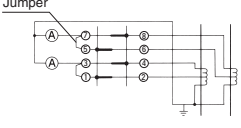

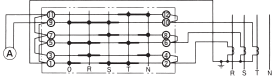



CAM-OPERATED SWITCH

B TYPE, BH TYPE

STANDARD ARRANGEMENT DIAGRAM

b) For ammeter (standard handle: HDP)

<p>Type C4</p>  <p>Nameplate No. 54-495 (E)</p>	<p>3-phase, 3-wire, 3-CT</p>	
<p>Type A6</p>  <p>Nameplate No. 54-755 (E)</p>	<p>3-phase, 3-wire, 3-CT (when differential relay is used)</p>	
<p>Type C6</p>  <p>Nameplate No. 54-495 (E)</p>	<p>3-phase, 3-wire, 3-CT (when differential relay is used)</p>	
<p>Type C2E</p>  <p>Nameplate No. 54-555 (E)</p>	<p>3-phase, 3-wire, 2-CT</p>	
<p>Type C2H</p> 	<p>for change ratio of current transformation</p>	<p>Jumper</p> 
<p>Type C3E</p>  <p>Nameplate No. 54-556 (E)</p>	<p>3-phase, 4-wire, 3-CT</p>	
<p>Type C3HT</p> 	<p>for change ratio of current transformation</p>	