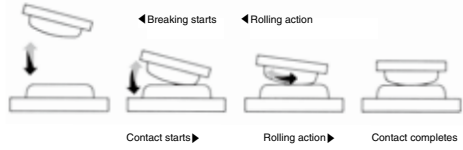


Rolling action of contact mechanism improves contact stability

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	
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		±7kV (1.2 / 50µs)	
Contact resistance		50mΩ or less	
Mechanical life		5,000,000 operations or more, Class 1	
Electrical life		500,000 operations or more, Class 1	
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 500mA, 5V DC 100mA (operating environment must be good)	
Operating temperature		-20 to 60°C	
Storing temperature		-40 to 70°C	
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)



B TYPE, BH TYPE

VOLTMETER • AMMETER SWITCH

HOW TO ORDER

B-V3-HDP-B JUMPER

Code	Switch	Type (page A27 to 30)	Handle code (page A6)	Color of handle / flange	Code	Jumper
B	B type				(Blank)	No jumper
BH	BH type				JUMPER	With jumper

* The mark " J " shows a jumper.

STANDARD ARRANGEMENT DIAGRAM


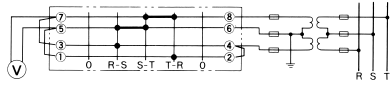
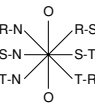
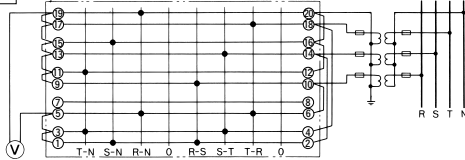
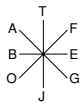
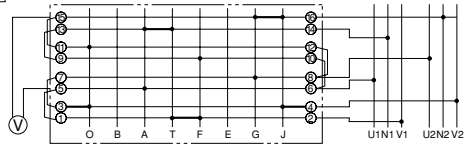
Notice: Jumpers are not standard accessory.
If it's necessary, please instruct "with jumper".

a) For voltmeter (standard handle: HDP)


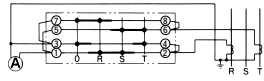

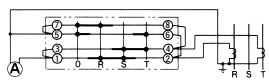

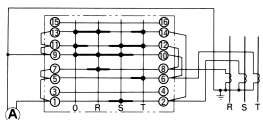
<p>Type V3</p> <p>Nameplate No. 54-753 (E)</p>	<p>3-phase, 3-wire, 2-PT</p>
<p>Type V2</p> <p>Nameplate No. 54-490 (E)</p>	<p>3-phase, 3-wire, 2-PT</p>
<p>Type NV4</p> <p>Nameplate No. 54-752</p>	<p>3-phase, 3-wire, 3-PT</p>
<p>Type NV3</p>	<p>3-phase, 3-wire, 3-PT</p>
<p>Type NV2E</p> <p>Nameplate No. 54-558</p>	<p>3-phase, 4-wire, 3-PT</p>

* If added "E" to the end of nameplate number, the nameplate in English shall be attached. For further details, please see page A51 to A52 for nameplate.
Ex) 54-753 : Japanese 54-753E : English

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> 

* For details of nameplates, see A51 to A52 and subsequent pages.