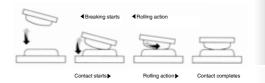
#### Rolling action of contact mechanism

#### 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	В ТҮРЕ	ВН ТҮРЕ			
Rated insulation voltage (Ui)	600V				
Rated current-carrying capacity (Ith)	20A				
Max. wire size	5.5nm²				
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 <sup>2</sup> or more (6 directions)				
Vibration resistance	Range of vibration : 10 to 150Hz, Acceleration : 20m/s <sup>2</sup> , 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 operating current (inductive load) (A)	-	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)

Har	ndle code				
Code	LDP	LD	HDP	HD	LFP
Shape	Rose shape (large) with one point	Rose shape (large)	Rose shape (small) with one point	Rose shape (small)	Octagonal shape (large) with one point
Code	LF	HFP	HF	LP	HP
Shape	Octagonal shape (large)	Octagonal shape (small) with one point	Octagonal shape (small)	Stick shape (large)	Stick shape (small)
Code	MP	HR	LS*	LE	HE
Shape	Pistol shape (large)	Pistol shape (small)	Knob shape	Egg shape (large)	Egg shape (small)
Code	HSP	USP			
Shape	Beak shape (large)	Beak shape (small)	* The shaft for the LS handle is Therefore, other types of hand	1 <u>3 mm shorter</u> than the standard t ises cannot be replaced with the LS	shaft. S handle (knob shape).

# Handle code (For dual body type / pulling lock and pushing lock type)

Code	BD	BF	BP	MD	MF
	Rose shape (large)	Octagonal shape (large)	Stick shape (large)	Rose shape (small)	Octagonal shape (small)
Shape	S S S S S S S S S S S S S S S S S S S	BB BB	24	AS AS	120
Code	MQ	MR			
Shape	Stick shape (small)	Pistol shape (small)			



## **VOLTMETER • AMMETER SWITCH**

## **HOW TO ORDER**

# **B-V3-HDP-B JUMPER**



 Code
 Jumper

 (Blank)
 No jumper

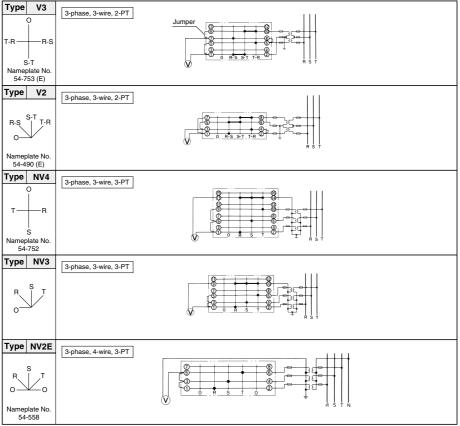
 JUMPER
 With jumper

\* The mark " ] " shows a jumper.

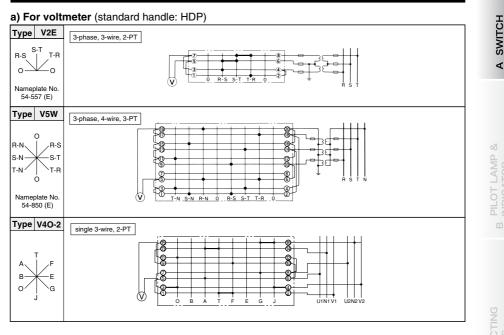
# STANDARD ARRANGEMENT DIAGRAM

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

#### a) For voltmeter (standard handle: HDP)



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



### b) For ammeter (standard handle: HDP)

