

Operating Push Button Switches (Strong Rainproof Type)

WBST series

Outline

Push button switches for operating electromagnetic switches. The strong rainproof type has higher rainproof performance with the button area all covered, and can be safely used even where muddy water splashes (IP65 conformed).

General Specifications

Item	Specifications
Material	Case, Cover: ABS resin
Color	Case: Black (N-1.5 equivalent) Cover: Ivory (5Y7/1 equivalent)
Standard use condition	Installation position
	Ambient temperature
	Relative humidity
	Installation location
Compliance standards	Electrical Appliance and Material Safety Law (compliant product) JIS C 8201-5-1 (Low-voltage switchgear and controlgear -- Part 5-1: Control circuit devices and switching elements -- Electromechanical control circuit devices) NECA C 4520 (General Rules for Control Switch) JIS C 0920 (Degree of protection provided by enclosure (IP Code))
Safety structure	IP53 (dust-proof, rain-proof) conformed Electrical Appliance and Material Safety Law: rain-proof type

Buttons

Characters are indicated on the rainproof button cover.

Color of the rainproof button cover	Black (Green only for WBSTT221ON) (Semi-clear only for WBST222A, WBST223A)
Character specifications	Characters are indicated on the rainproof button cover. Characters are indicated on the buttons under the rainproof button cover only for WBST222A, WBST223A. Please contact us for buttons with black characters that can be customized. In this instance, the rainproof button cover will be semi-clear.

Applicable cable

If the cable in use and the attached cable bushing do not fit properly in the rainproof type, the rainwater may leak inside and it is dangerous. Please obtain the fitting cable bushing.

Type name	Vinyl cabtire cable		Accessory (cable bushing type name)
	Nominal cross sectional area (mm ²)	Number of cable conductors	
WBST 221 ON, WBST 221 OF	1.25	2	φ 10.4 (KPA15B)
WBSTT 221 ON	1.25	2	φ 10.4 (KPA15B)
WBST 221 ON 110	1.25	4	φ 12.3 (KPA15A)
WBST 222, WBST 222 A	1.25	3	φ 11.5 (KPA15C)
WBST 223	1.25	4	φ 12.3 (KPA15A)
WBST 223 A	1.25	3	φ 11.5 (KPA15C)

Button number	Use	Type Name	Remarks
1 P	General closed circuit	WBST 221 ON	Twin contact
		WBSTT 221 ON	
	General open circuit	WBST 221 OF	
		Closed circuit	WBST 221 ON 110
2P	General switching	WBST 222	
	Reversible inching	WBST 222 A	
3 P	General reversible	WBST 223	
	Inching combined	WBST 223A	

Contact Rating

Item	Specifications		
Rated insulation voltage	AC/DC 500V		
Rated thermal current	5A		
Rated working voltage	AC110V	AC220V	AC440V
Rated working current	4A	2A	1A
AC15 Inductive load	40A	20A	10A
Breaker (cos φ = 0.4)	4A	2A	1A
Withstand voltage	AC2000V 1 minute		

For twin contact

Item	Specifications		
Rated insulation voltage	AC/DC 250V		
Rated thermal current	5A		
Rated working voltage	AC110V	AC220V	DC24V
Rated working current	4A	2A	2A
AC15 Inductive load	40A	20A	—
Breaker (cos φ = 0.4)	4A	2A	
DC13 Inductive load	—	—	2A [≠]
Withstand voltage	AC1500V 1 minute		

Note: Minute load: It has been already confirmed that it can be used under the test condition of DC12V, 10mA without difficulties.

Common

Item	Specifications
Indication by Electrical Appliance and Material Safety Law	AC250V 5A
Insulation resistance	100MΩ or more (DC500V Megger)
Connecting terminal	M3.5 captive screw
Tightening torque	1.0~1.3N·m

Remark: Rating in accordance with the Electrical Appliance and Material Safety Law (AC 250V 5A) is only shown on the nameplate.

Cable bushing list

Name	Type name	Applicable range of cable external diameter (to include the width of the insulation)
Cable bushing (washers included)	KPA15F (Internal diameter φ 6.8)	φ 4.8~6.8
	KPA15E (Internal diameter φ 9.0)	φ 6.8~9.0
	KPA15B (Internal diameter φ 10.4)	φ 9~10.4
	KPA15C (Internal diameter φ 11.5)	φ 10.2~11.5
	KPA15A (Internal diameter φ 12.3)	φ 11~12.3
	KPA15D (Internal diameter φ 13.3)	φ 12~13.3

Name	Type name
Ground connector	GPA15

Power Switches

Hoist Push-Button Switches

Operating Push Button Switches

Foot Switches

Liquid Level Relays