


Outline

The COB 213 is a dedicated pushbutton switch for single-phase electrical machinery with built-in button packing for which button packing is provided within the case.

Number of buttons is only 2 (a pair).


Mechanical interlock is provided. Simultaneous use of up and down buttons is impossible, so it can be used safely.

Basic type list

Type name	COB 213
Appearance	
No. of buttons	2 (1 pair)
Button packing	Built-in structure
Prevention of erroneous operation	With mechanical interlock

General specifications


Specifications

Item	Rating
Degree of protection	IP65 (JIS C 0920) NEMA: 4X-compliant Electrical Appliance and Material Safety Law  : Rainproof type
Material/ Color	Case : Shockproof ABS Resin ^{Note /} Orange (Munsell 7.5YR7/13 equivalent) Case-tightening screws: Stainless (± screws) Cable bushing: Synthetic rubber / Black
Insulation resistance	100MΩ or more (500 V DC Megger)
Withstand voltage	2500 V AC / minute
Vibration proof	Operational Tolerance 10 to 55Hz Displacement 1.5mm
Shockproof	Durability 500m/s ²
	Operational Tolerance 100m/s ²
Ambient temperature	-15°C to +40°C (must be free of ice or condensation)
Relative humidity	45 to 85% RH
Installation position	M3.5 screws (Pressure terminal type)
	Must be installed with the cable slot uppermost using appropriate cable cabling.



Rating

Item	Specifications
Voltage used	1 φ 100/110V 1 φ 200/220V
Rated insulation voltage	250V AC
Rated thermal current	15A
Insulation resistance	100MΩ or more (500 V DC Megger)
Withstand voltage	2500 V AC / minute

Compliance standards

Name of standards
JIS C 8201-3
JIS C 0920
Electrical Appliance and Material Safety Law  (compliant products)

Overseas standards (Production on demand)

Name of standards	File name
UL  , C-UL 	E134156

Product List

No. of buttons	Type	Maximum applicable electrical machinery capacity	Included cable bushing (Applicable cable diameter range)	Included marking board	Contact arrangement	General mass (g)
2 (1 pair)	COB 213	1 φ 100/110V 0.75 kW	C19 (φ 18.4 to φ 19.6)	Up, Down	3NO-3NO	480
		1 φ 200/220V 1.5 kW				

Remark : Please refer to “Cable bushing in Option” for installation of cable bushing.

Power Switches

Hoist Push-Button Switches

Operating Push Button Switches

Foot Switches

Liquid Level Relays

Option

Cable bushing

It is dangerous to use the standard cable bushing included with this product with inappropriate cabling, as rainwater may easily enter the switch. Please purchase the appropriate cable bushing.

Cable bushing type name	Applicable cable diameter range
C7	φ 6.8 to φ 7.9
C8	φ 7.7 to φ 8.8
C9	φ 8.9 to φ 10.0
C10	φ 10.0 to φ 11.0
C12	φ 10.6 to φ 11.8
C125	φ 11.4 to φ 12.6
C13	φ 12.3 to φ 13.5
C14	φ 12.7 to φ 14.1
C15	φ 14.3 to φ 15.5
C16	φ 15.4 to φ 16.6
C17	φ 15.7 to φ 17.1
C18	φ 17.2 to φ 18.4
C19	φ 18.4 to φ 19.6

Cable bushing type name	Applicable cable diameter range	Packing (waterproof area)	Bush (protection area)
COB A1	φ 7.5 to φ 10.5	CC-A1	CB-A
COB A2	φ 10.3 to φ 13.5	CC-A2	
COB B1	φ 13.3 to φ 16.5	CC-B1	CB-B
COB B2	φ 16.3 to φ 19.5	CC-B2	

• Installation method for COB A1, A2, B1, B2 cable bushing

The cable is fed through the bushing holder, bushing, and packing in that order, and the tightening screw is used to secure the bushing holder firmly to the case. Two packings are prepared as a set. Check the cable range displayed on the packing, and separate off the applicable one.

In terms of C7 to C19 cable bushing, the bush and packing are integrated.

Reference : When inserting into the bushing, it is recommended to lubricate the cable and cable slot with wet soap to ease insertion. Do not use lubricating oil, as this may damage the bushing.

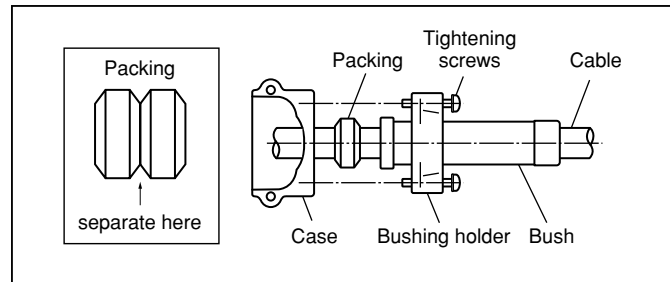
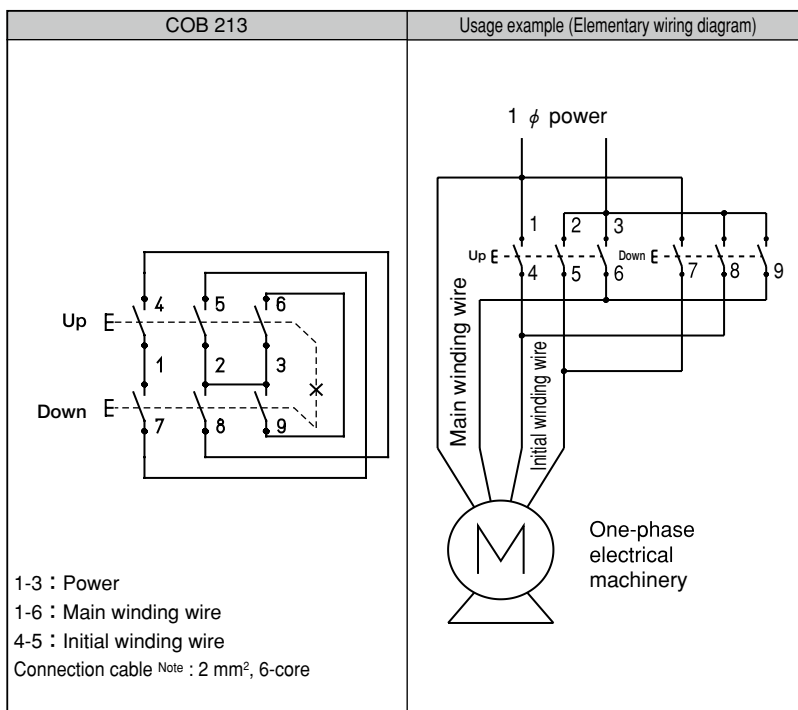


Diagram of internal connections



Note : If a different cable diameter is used, please purchase an appropriate cable bushing.

Dimensions (Unit: mm)

