NO:2020.09

CHINT ELECTRICS

NP3 Series Pushbutton

User Instruction

Standard:IEC/EN 60947-5-1

⚠ Safety Warning

1. Only professional technicians are allowed for installation and maintenance.
2. Installation in any damp, condensed-phase environment with inflammable and explosive gas is forbidden.
3. When the product is being installed or maintained, the power must be switched off.
4. You are prohibited from touching the conductive part when the product is operating.

1 Use Purpose

NP3 series pushbutton is used in industrial control circuit with frequency of AC 50Hz (or 60Hz), rated operating voltage up to AC 380V or DC operating voltage up to 220V. It is applicable to circuit control systems used in outdoor, rainy, snowy and dusty environment, for example, the remote control of crane or electric hoist.

2 Main Technical Parameters

Table 1 Main technical parameters

Environmental conditions	Ambient temp. (℃)	-5℃~+40℃, average temperature should not exceed +35℃ within 24h
	Hot and humid atmospheric conditions	Relative humidity should not exceed 50% at +40℃; up to 90% at +20℃;
	Altitude	No influence below 2000m
	Pollution class/ installation category	Class 3/II
Technical parameters	Rated operating voltage Ue(V)	AC-15: 380/220; DC-13: 220/110
	Rated operating current Ie(mA)	AC-15: 2.5/4.5; DC-13: 0.3/0.6
	Rated insulation voltage Ui(V)	380
	Conventional thermal current Ith(A)	10
	Rated impulse withstand voltage Uimp(kV)	2.5
	Head protection class	IP65

3 Installation

1)See Figure 1 and Table 2 for overall dimensions.

Table 2 Overall dimensions of buttons of different specifications

Unit:mm

Model	Amax	Bmax	H1max	H2max
NP3-1	70	50	140	250
NP3-2, NP3-1A, NP3-1B			200	310
NP3-3, NP3-2A, NP3-2B			260	370
NP3-4, NP3-3A, NP3-3B			320	430
NP3-5, NP3-4A, NP3-4B			380	490
NP3-1K		80	200	310
NP3-2K			260	370
NP3-3K			320	430
NP3-4K			380	490

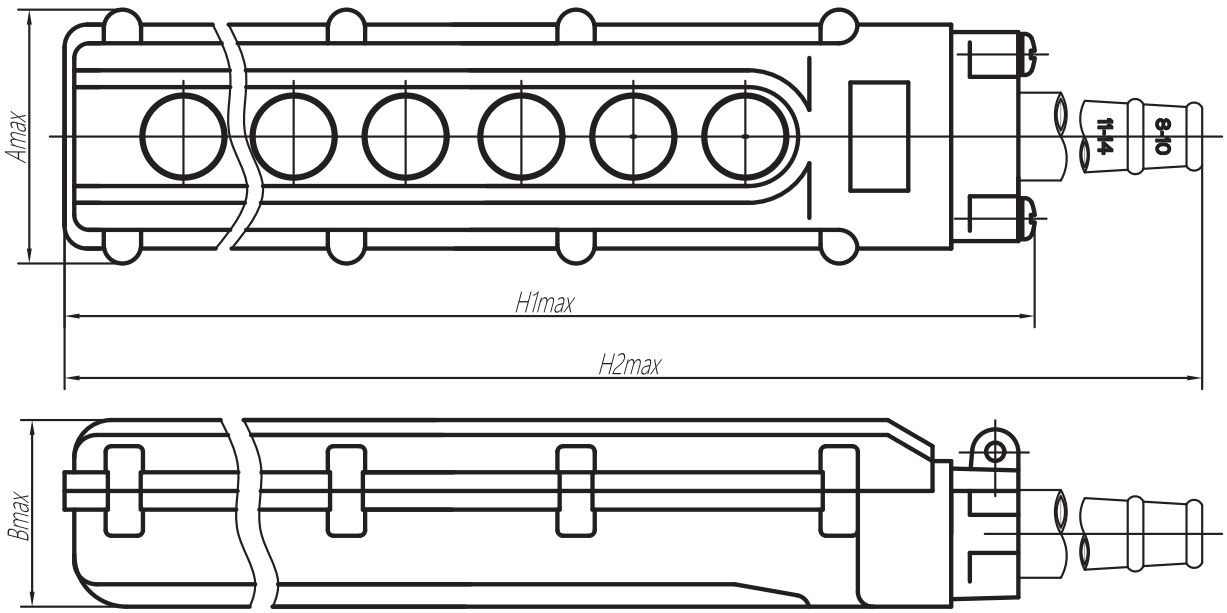
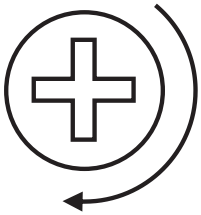
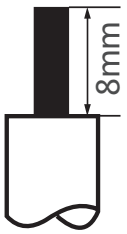


Figure 1 Overall dimensions

2) See Table 3 for wire selection and tightening torque.

Table 3 Wire selection and tightening torque

	 mm²	 mm²	Use hard wire or soft wire for a single connection. One terminal can connect up to two conductors with same sectional area and type
M4 1.2 N.m	2× 0.5~2.5	2× 0.5~2.5	

3) Installation procedure and method

Pass the cable through the rubber sealing sleeve and fix the rubber sealing sleeve with end cap (1), then secure the wires onto the terminal of each button one by one according to the electrical drawing; install the bottom cover and tighten the screws (2), as shown in Figure 2.

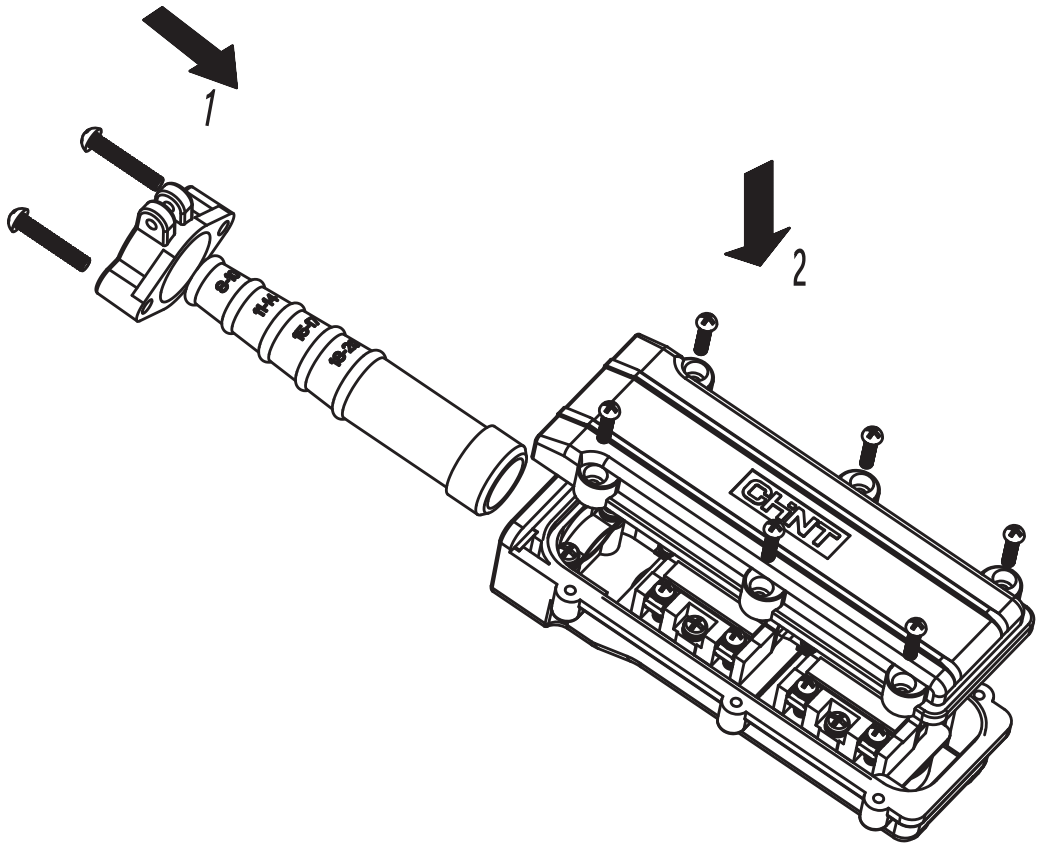


Figure 2 Installation diagram of NP3 pushbutton

4 Maintenance

Tighten the terminals of the button on a regular basis to make sure the wires are connected securely.

Tighten the fixing screws of the button on a regular basis.

Disconnect the power before regular maintenance to ensure personal safety.

It is recommended to conduct maintenance once a month.

See Table 4 for Analysis and Troubleshooting of Faults.

Table 4 Analysis and Troubleshooting of Faults

Symptoms	Cause analysis	Troubleshooting method
Poor contact of button	The wire is loose or disconnected	Tighten the terminal screw, check if the screw is loose before using the button.
Water stain in the button	The seal ring is not properly fitted after the wire is re-installed	Check the waterproof seal ring on the button case to see if it is misplaced or falls out of place; adjust the seal ring so it fits in the waterproof groove of the case.

5 Environmental Protection

In order to protect the environment, the product or product parts should be disposed of according to the industrial waste treatment process, or be sent to the recycling station for assortment, dismantling and recycling according to local regulations.

CHINT

QC PASS

NP3 Series
Pushbutton
IEC/EN 60947-5-1

Check 32

Test date: Please see the packing

ZHEJIANG CHINT ELECTRICS CO., LTD.

CHINT ELECTRICS

NP3 Series
Pushbutton
User Instruction

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