

5.Other

5.1 Starters accessories

5.1.1 Type, model and specifications of accessories (see Table 10).

Description of accessories	Accessories Model				Accessories Specifications
	NS2-25, NS2-32 applies	NS2-25X, NS2-32X applies	NS2-32H applies	NS2-80 applies	
Undervoltage release	NS2-UV110	NS2-UV110	NS2-UV110	NS2-UV110	110~115V, 50Hz; 127V,60Hz
	NS2-UV220	NS2-UV220	NS2-UV220	NS2-UV220	220~240V, 50Hz
	NS2-UV380	NS2-UV380	NS2-UV380	NS2-UV380	380~400V, 50Hz; 440V,60Hz
Shunt release	NS2-SH110	NS2-SH110	NS2-SH110	NS2-SH110	110~115V, 50Hz; 127V,60Hz
	NS2-SH220	NS2-SH220	NS2-SH220	NS2-SH220	220~240V, 50Hz
	NS2-SH380	NS2-SH380	NS2-SH380	NS2-SH380	380~400V, 50Hz; 440V,60Hz
Instantaneous auxiliary contact (front hanging)	NS2-AE20	NS2-AE20	NS2-AE20	NS2-AE20	2NO
	NS2-AE11	NS2-AE11	NS2-AE11	NS2-AE11	1NO+1NC
Instantaneous auxiliary contact (side hanging)	NS2-AU20	NS2-AU20	NS2-AU20	NS2-AU20(NS2-80)	2NO
	NS2-AU11	NS2-AU11	NS2-AU11	NS2-AU11(NS2-80)	1NO+1NC
Fault signal contact and instantaneous auxiliary contact	NS2-FA0110	NS2-FA0110	NS2-FA0110	-	1NC+1NO
	NS2-FA0101	NS2-FA0101	NS2-FA0101	-	1NC+1NC
	NS2-FA1010	NS2-FA1010	NS2-FA1010	-	1NO+1NO
	NS2-FA1001	NS2-FA1001	NS2-FA1001	-	1NO+1NC
Waterproof mounting box	NS2-MC	WPB-1	-	-	-
Mounting box with emergency stop button	NS2-MC01	-	-	-	-

5.1.2 Undervoltage trip device

NS2-UV110, UV220, UV380'S, performance:

- a. Rated insulation voltage U_i (V): 690.
- b. Operating characteristics: When the voltage drops to 70% and 35% of the rated voltage range, undervoltage trip device shall act;

Undervoltage trip device in the power supply voltage is less than 35% of the rated voltage of the trip device, the undervoltage trip device should be able to prevent the starter from closing;

when the power supply voltage is equal to or greater than 85% of the rated voltage of the trip device, the undervoltage trip device should guarantee closure of the starter.



NS2-UV

5.1.3 The characteristics of the shunt trip

NS2-SH110, SH220, SH380:

- a. Rated insulation voltage U_i (V): 690.
- b. Operating characteristics: the operating voltage range of the shunt trip device is rated working voltage of 70% ~ 110%.



NS2-SH

5.1.4 Characteristics of the instantaneous auxiliary contact NS2-

Ae20, AE11 (front hanging)

- a. rated insulation voltage U_i (V): 250;
- b. agreed thermal current I_{th} (A): 2.5;
- c. type, rated voltage and rated operating current (see Table 11) of instantaneous auxiliary contacts.



NS2-AE

Table 11

Utilization category	AC-15				DC-13		
	24	48	110/127	230/240	24	48	60
Rated operating voltage U_e (V)	24	48	110/127	230/240	24	48	60
Rated operating current I_e (A)	2	1.25	1	0.5	1	0.3	0.15
Normal operating power P (W)	48	60	127	120	24	15	9



5.1.5 Instantaneous auxiliary contact NS2-AU20, AU11

performance (side hanging):

- a. rated insulation voltage U_i (V): 690;?
- b. agreed thermal current I_{th} (A): 6;?
- c. type, rated voltage and rated operating current of the instantaneous auxiliary contacts (see Table 12).



Utilization category	AC-15							DC-13				
Rated operating voltage U_e (V)	48	110/127	230/240	380/415	440	500	690	24	48	60	110	220
Rated operating current I_e (A)	6	4.5	3.3	2.2	1.5	1	0.6	6	5	3	1.3	0.5
Normal operating power P (W)	300	500	720	850	650	500	400	140	240	180	140	120

5.1.6 Characteristics of the fault signal contact and instantaneous auxiliary contact NS2-FA:?

Fault signal contact and instantaneous auxiliary contact NS2-FA, consist of the fault signal contact and instantaneous auxiliary contact. They have different use types and characteristics.

- a. rated insulation voltage U_i (V): 690;
- b. agreed thermal currents of instantaneous auxiliary contacts: I_{th} (A) : 6, agreed thermal current of fault signal contacts I_{th} (A): 2.5;
- c. the use type, rated voltage and rated work?current (see Table 12) of the instantaneous auxiliary contact same as the NS2-AU instantaneous auxiliary contact; the use type, rated voltage and rated operating current (see Table 13) of the fault signal contacts.



Utilization category	AC-14				DC-13		
Rated operating voltage U_e (V)	24	48	110/127	230/240	24	48	60
Rated operating current I_e (A)	1.5	1	0.5	0.3	1	0.3	0.15
Normal operating power P (W)	36	48	72	72	24	15	9
Operating performance (time)	1000	1000	1000	1000	1000	1000	1000

5.1.7 Non-normal making and breaking capacity (see Table 14) of fault signal contact and instantaneous auxiliary contact.

Use type	Connection		Disconnection				On-off operation cycles and operating frequency		
	I/I_e	U/U_e	$\cos\Phi$ or $T_{0.95}$	I/I_e	U/U_e	$\cos\Phi$ or $T_{0.95}$	Operating cycles	Operating cycles per minutes	Energize Time
AC-14	6	1.1	0.7	6	1.1	0.7	10	2	0.05
AC-15	10	1.1	0.3	10	1.1	0.3	10	2	0.05
DC-13	1.1	1.1	6Pe	1.1	1.1	6Pe	10	2	0.05

Note: $P_e \geq 50W$, $T_{0.95}$ upper limit $\approx 6P_e \leq 300ms$.

5.1.8 Mounting box (NS2-MC, NS2-MC01)



NS2-MC Waterproof installation box

IP55



NS2-MC01 Installation box with emergency stop button

IP55

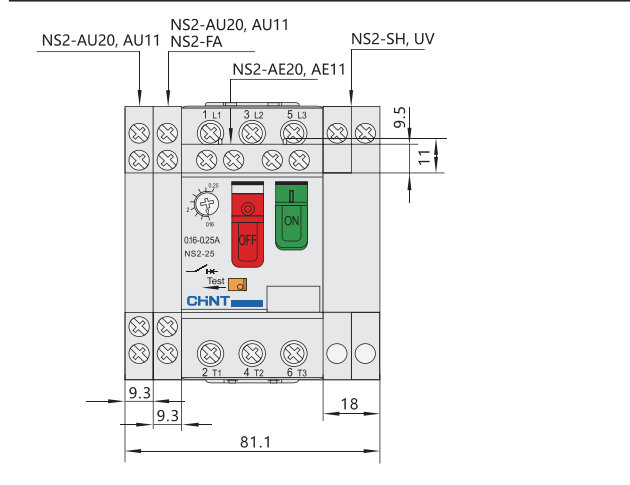


WPB-1 Waterproof installation box

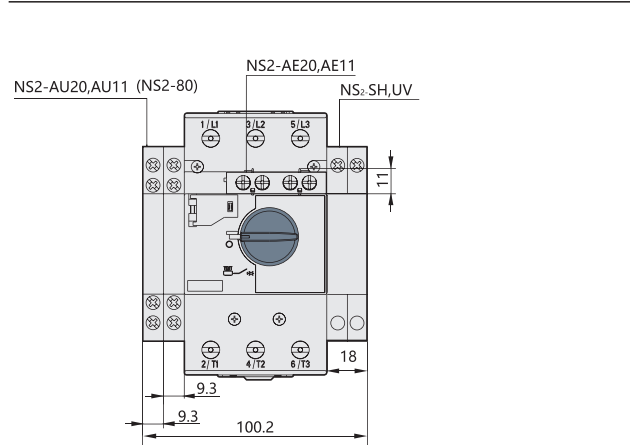
IP55

6. Overall and mounting dimension (mm)

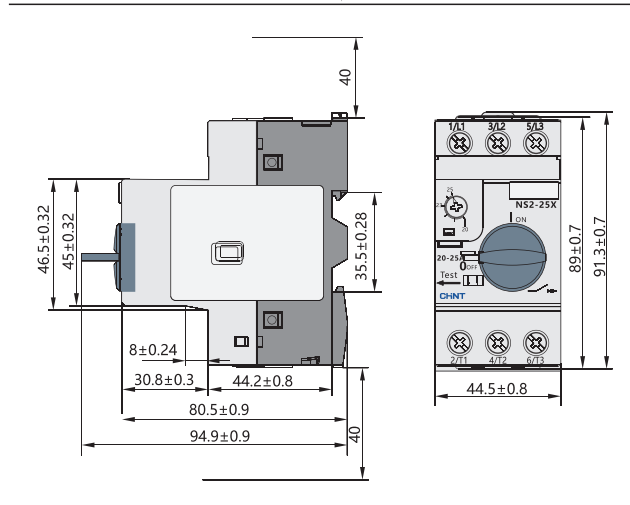
NS2-25, NS2-32



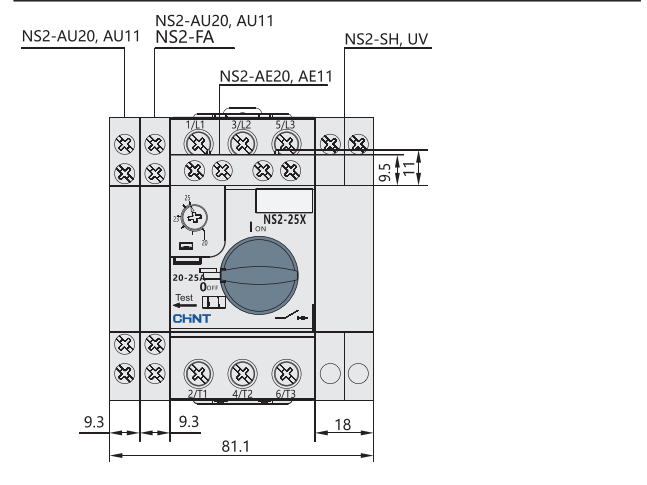
NS2-80



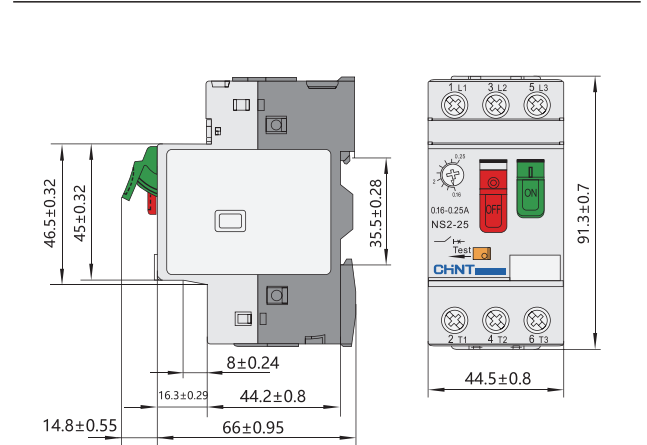
NS2-25X, NS2-32X



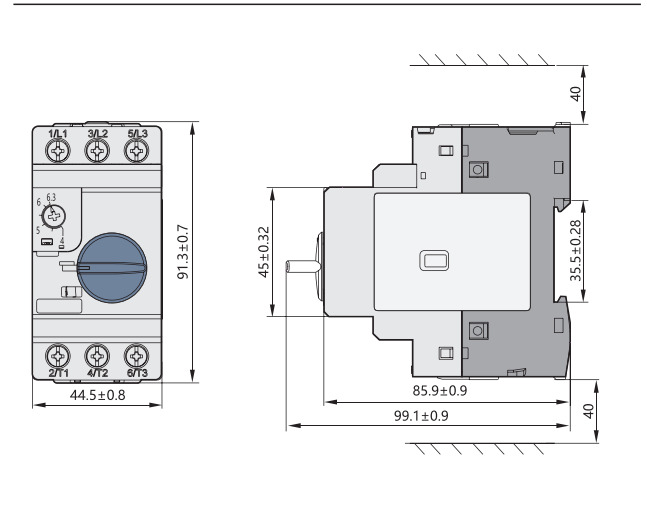
NS2-25X, NS2-32X, NS2-32H



NS2-25, NS2-32



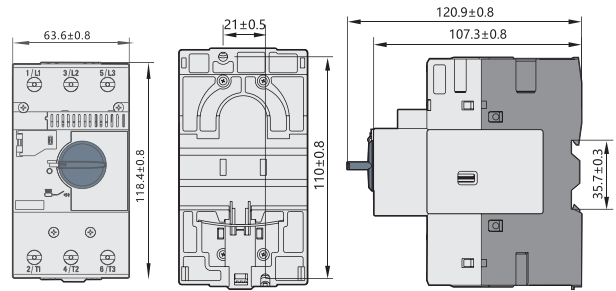
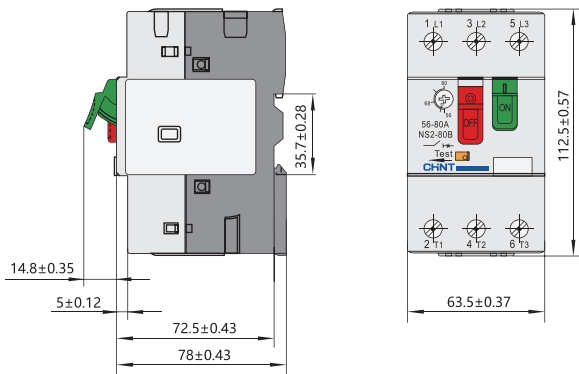
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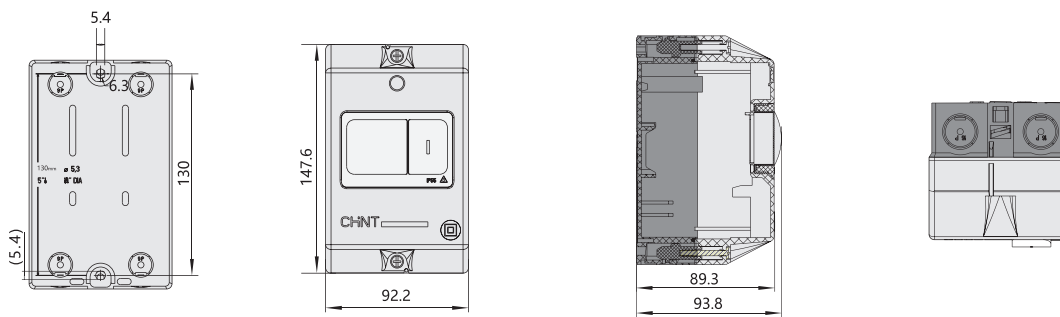
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NS2-80B

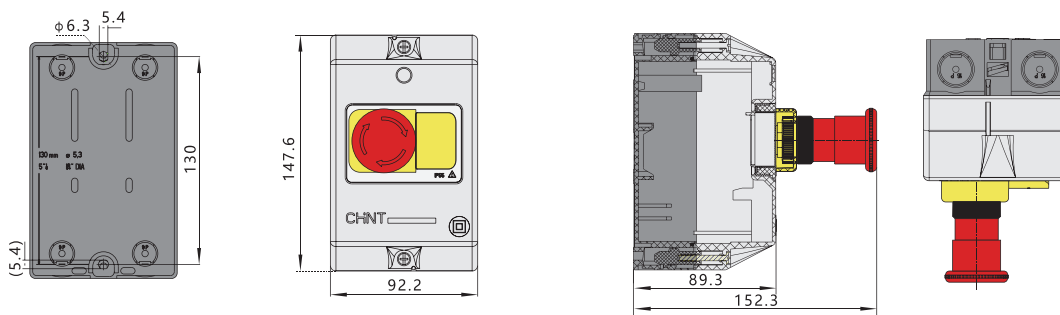
NS2-80



NS2-MC



NS2-MC01



WPB-1

