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Modular Din Rail Product

CHINT•Empower the World



Founded in 1984, CHINT Group is a leader in Chinese industrial electric appliance and new

energy sectors. With total assets of 36.5 billion RMB and nearly 30 thousand employees, the company is running business that covers the whole power equipment industrial chain including power generation, transmission, transformation, distribution, and consumption. The company is also operating in the fields of urban rail traffic, energy equipment



The Next Reliable Choice

Modular Din Rail Product





Contact site indicating window, more clearly on the position

All products have the contact site indicating window, which can prevent wrong operation, and make the using more reliable.



More choice of specifications of the residual operating current

6 specifications including 10mA, 30mA, 50mA,75mA, 100mA and 300mA, for a wider choice and more accurate protection.



Absolute adaptability, with steady and reliable operation in extreme conditions

-35°C/+70°C operating temperature range. Meets several applications requirements.



Large current with small dimension, save the installation space

50A MCCB is only 18mm width, while 63A RCCB is only 36mm width.



Complete accessories, multifunctional combination

More accessories selection to achieve customer needs, reduce customization and cost.

10mA Earth leakage protection

First prevent the danger More reliably on safety

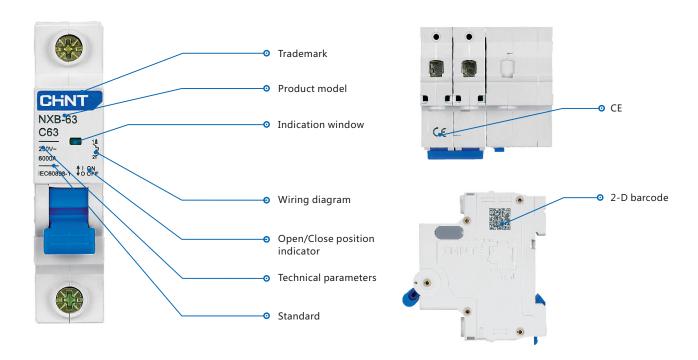


Content

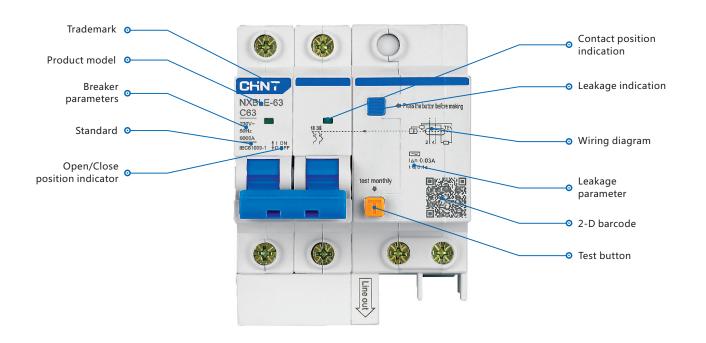
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Identifier description

NXB-63 Miniature Circuit Breaker



NXBLE-63 Residual current operated circuit breaker



Product overview

Miniature Circuit Breaker

Overload protection, short circuit protection and isolation. It is widely used in building power distribution, industrial power distribution, as well as control and protection for a variety of equipment with operating current not exceeding 125A.Key products series include:



NXB-40

40A and below single mode 1P + N Miniature Circuit Breaker (IEC/EN 60898-1)



NXB-63

63A and below Miniature Circuit Breaker (IEC/EN 60898-1)



NXB-63H

63A and below Miniature Circuit Breaker (IEC/EN 60898-1)



NXB-80

80A and below 1P, 1P + N, 2P Miniature Circuit Breaker (IEC/EN 60898-1)



NXB-125

125A and below Molded Case Circuit Breaker (IEC/EN 60898-1)



NXB-125G

125A and below Miniature Circuit Breaker (IEC/EN 60898-1)

• Residual Current Operated Circuit Breaker (RCBO)

It has the function of overload and short circuit protection, isolation and Earth leakage current protection, i.e., besides the protection function of Miniature Circuit Breaker, it can also serve as additional protection for direct or indirect electric leakage/shock or protective measures for electric fire. It is especially suited for places with low safety level, such as bathroom, swimming pool, plug socket or transformer. Key products series include:



NXBLE-40

40A and below 1P + N RCBO (IEC/EN 61009-1)



NXBLE-63Y

63A and below 1P + N RCBO (IEC/EN 61009-1)



NXBLE-32

32A and below RCBO (IEC/EN 61009-1)



NXBLE-63

63A and below RCBO (IEC/EN 61009-1)



NXBLE-125

125A and below RCBO (IEC / EN 60947-2)



NXBLE-125G

125A and below RCBO (IEC/EN 61009-1)

Product overview

Accessories

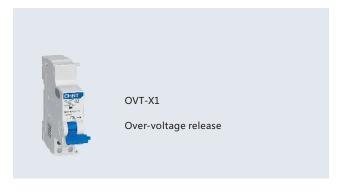
A variety of additional features can be achieved with wide range of accessories when used with circuit breaker, such as alerts, shunt trip, under -voltage protection, etc. Usually the Max number of accessories assembled on the circuit breaker is three. Accessories with independent tripping function should be assembled first, such as shunt trip, and under-voltage trip, Followed by other accessories , such as auxiliary contacts, alarm auxiliary contacts.

Accessories that can be assembled with NXC-63 series (IEC/EN 60947-5)

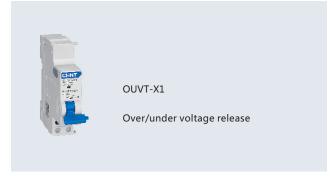






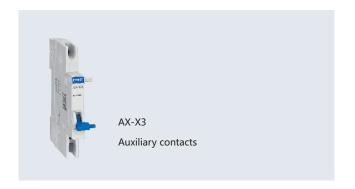


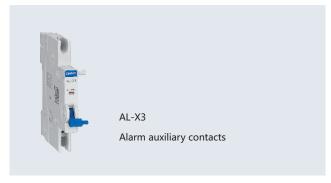




Product overview

Accessories for NXC-125 series (IEC/EN 60947-5)













Product overview

Surge protector

It is mainly suitable for lightning protection for low-voltage distribution system in the building, and surge protection for the main inlet cabinet.

Key product models include (IEC61643-11):







Isolation switch

With isolation function, it is mainly used for isolation and functional analysis of terminal power distribution.



Parameters

Circuit breaker and switch parameters

Product model		NXB-40	NXB-63	NXB-63H
Compliant standards		IEC60898-1	IEC60898-1	IEC60898-1
Rated current (A)		6~40	1~63	1~63
Rated voltage (V ~)		240	240/415	240/415
Rated frequency (Hz)		50/60	50/60	50/60
Number of poles		1P+N	1P, 1P+N, 2P, 3P, 3P+N, 4P	1P, 1P+N, 2P, 3P, 3P+N, 4P
Mechanical life (cycles)		20000	20000	20000
Electrical life (cycles)		10000	10000	10000
Rated short-circuit breaking cap	acity Icu (A)	4500	6000	10000
Short-circuit breaking capacity I	cu (A)	4500	6000	7500
Rated impulse withstand vol	rage (1.2 / 50)(kV)	4	4	4
Dielectric test voltage (V)		(Power frequency 1 minute) 2000	(Power frequency 1 minute) 2000	(Power frequency 1 minute) 2000
Anti-humid and heat propertie	es (GB/T2423.4:55°C/90~96%,25°C/95~100%)	28 cycles	28 cycles	28 cycles
	Minimum cross section (mm²)	1	1	1
	Maximum cross section (mm²)	16	25	25
Terminals	Standard connection torque (N·m)	1.5	2	2
	Maximum withstand torque (N m)	2	2.5	2.5
	Wire insertion depth (mm)	10	12.5	12.5
Reference temperature for se	etting of thermal element (°C)	30	30	30
Ambient temperature (°C)	tuning of thermal element (e)	-35~+70	-35~+70	-35~+70
Ambient storage temperatur	e (°C)	-35~+85	-35~+85	-35~+85
Applicable altitude (m)				
,	Type B (3In ~ 5In)	5000	5000	5000
	Type C (5In ~ 10In)	_	_	_
Electromagnetic	Type D (10In ~ 14In)	_		_
trip type	Type C (6.4In ~ 9.6In)			
	Type D (9.6In~14.4In)			
Electromagnetic	50 ~ 60Hz	1In	1In	1In
tripping current correction factor under	100Hz	1.1In	1.1In	1.1In
different power	200Hz	1.2In	1.2In	1.2In
frequency (recommended value)	400Hz	1.5In	1.5In	1.5In
	DC	1.5In	1.5In	1.5In
Derating factor with	≤3	(0.9~0.95)In	(0.9~0.95)In	(0.9~0.95)In
multiple products	4 ~ 6	(0.86~0.80)In	(0.86~0.80)In	(0.86~0.80)In
side by side (recommended value)	7 ~ 9	(0.78~0.76)In	(0.78~0.76)In	(0.78~0.76)In
	>9	0.76In	0.76In	0.76In
Temperature compensation coefficient (recommended	Change for every 10°C increase from the reference temp	-(0.04~0.07)In	-(0.03~0.05)In	-(0.04~0.07)In
value)	Change for every 10°C decrease from the reference temp	+(0.04~0.07)In	+(0.04~0.07)In	+(0.04~0.07)In
Datad	≤2000m	In	In	In
current correction factor	3000m	0.96In	0.96In	0.96In
for high altitude use (recommended value)	4000m	0.94In	0.94In	0.94In
,	5000m	0.92In	0.92In	0.92In
	≤2000m	Ue	Ue	Ue
Rated voltage correction factor	3000m	0.89Ue	0.89Ue	0.89Ue
for high altitude use (recommended value)	4000m	0.78Ue	0.78Ue	0.78Ue
(recommended value)	5000m	0.68Ue	0.68Ue	0.68Ue
Cable entry		Top or bottom entry	Top or bottom entry	Top or bottom entry
Mounting		TH35-7.5-rail mounting	TH35-7.5-rail mounting	TH35-7.5-rail mounting
Pollution degree		Pollution degree II	Pollution degree II	Pollution degree II
3	Direct mounting	IP20	IP20	IP20
Protection degree	Mounted in the distribution box	IP40	IP40	IP40
	500			
Accessories that can be asser	mbled	AX-X1, AL-X1, SHT-X1, OVT-X1, UVT-X1, OUVT-X1	AX-X1, AL-X1, SHT-X1, OVT-X1, UVT-X1, OUVT-X1	AX-X1, AL-X1, SHT-X1, OVT-X1, UVT-X1, OUVT-X1

1E 8) 2: 5) 1:	NXB-80 EC60898-1 30	NXB-125 IEC60947-2 63~125	NXB-125G IEC60898-1 63~125	NXHB-125 IEC60947-3 63~125
8) 2, 5) 1)	30	63~125		
2: 5i 1i			63~125	63~125
51	240			
1		240/415	240/415	240/415
1	50/60	50/60	50/60	50/60
20	LP, 1P+N, 2P	1P, 2P, 3P, 4P	1P, 2P, 3P, 4P	1P, 2P, 3P, 4P
	20000	20000	20000	10000
	0000	6000(In≤100A), 4000(In>100A)	6000(In≤100A), 4000(In>100A)	3000
	5000	10000	10000	20Ie
	5000	7500	7500	3Ie
4		4	4	6
	Power frequency 1 minute) 2000	(Power frequency 1 minute) 1890	(Power frequency 1 minute) 2000	(Power frequency 1 minute) 1890
	28 cycles	28 cycles	28 cycles	28 cycles
1		6	6	1
	25	50	50	50
2		3.5	3.5	3.5
3		4	4	4
	.2.5	15	15	15
	30	30	30	30
	35~+70	-35~+70	-35~+70	-35~+70
-3	35~+85	-35~+85	-35~+85	-35~+85
51	5000	5000	5000	5000
			•	
			•	
			•	
		•		
11	In	1In	1In	
1.	1In	1.1In	1.1In	
1.	2In	1.2In	1.2In	
1.	5In	1.5In	1.5In	
1.	5In	1.5In	1.5In	
(0	0.9~0.95)In	(0.9~0.95)In	(0.9~0.95)In	
	0.86~0.80)In	(0.86~0.80)In	(0.86~0.80)In	
	0.78~0.76)In	(0.78~0.76)In	(0.78~0.76)In	
	0.76In	0.76In	0.76In	
	-(0.03~0.05)In	-(0.03~0.05)In	-(0.03~0.05)In	
	+(0.04~0.07)In	+(0.04~0.07)In	+(0.04~0.07)In	
Ir		In	In	
).96In	0.96In	0.96In	
).94In		0.94In	
		0.94In		
	0.92In	0.92In	0.92In	
	Je	Ue	Ue	
).89Ue	0.89Ue	0.89Ue	
	0.78Ue	0.78Ue	0.78Ue	
	0.68Ue	0.68Ue	0.68Ue	
To	op or bottom entry	Top or bottom entry	Top or bottom entry	Top or bottom entry
T	TH35-7.5-rail mounting	TH35-7.5-rail mounting	TH35-7.5-rail mounting	TH35-7.5-rail mounting
Po	Pollution degree II	Pollution degree III	Pollution degree III	Pollution degree II
IF	P20	IP20	IP20	IP20
	P40	IP40	IP40	IP40

Residual current operated circuit breaker parameter

Product model		NXBLE-40	NXBLE-63Y
Compliant standards		IEC61009-1	IEC61009-1
Rated current (A)		6~40	6~63
Rated residual operating current (A)		0.01, 0.03	0.01, 0.03
Leakage protection type		AC	AC
Rated voltage (V ~)		240	240
Rated frequency (Hz)		50/60	50/60
Number of poles		1P+N	1P+N
Mechanical life (cycles)		20000	20000
Electrical life (cycles)		10000	10000
Rated short-circuit breaking	capacity (A)	4500	4500
Short-circuit breaking capac	ity (A)	4500	4500
Rated impulse withstand vol	ltage (1.2 / 50)(kV)	4	4
Dielectric test voltage (V)		(Power frequency 1 minute) 2000	(Power frequency 1 minute) 2000
Anti-humid and heat properti	ies (GB/T2423.4:55°C/90~96%,25°C/95~100%)	28 cycles	28 cycles
	Minimum cross section (mm²)	1	1
	Maximum cross section (mm²)	16	25
Terminals	Standard connection torque (N·m)	1.5	2
	Maximum withstand torque (N m)	2	2.5
	Wire insertion depth (mm)	10	12.5
Reference temperature for s	etting of thermal element (°C)	30	30
Ambient working temperatu	ıre (°C)	-35~+70	-35~+70
Ambient storage temperatur	re (°C)	-35~+85	-35~+85
Applicable altitude (m)		5000	5000
	Type B (3In ~ 5In)		
	Type C (3In ~ 5In)		
Electromagnetic trip type	Type D (3In ~ 5In)	•	
пр туре	Type C (6.4In ~ 9.6In)		
	Type D (9.6In~14.4In)		
	50 ~ 60Hz	1In	1In
Electromagnetic tripping current	100Hz	1.1In	1.1In
correction factor under different power	200Hz	1.2In	1.2In
frequency	400Hz	1.5In	1.5In
(recommended value)	DC	1.5In	1.5In
	≤3	(0.9~0.95) In	(0.9~0.95) In
Derating factor with multiple products	4 ~ 6	(0.86~0.80)In	(0.86~0.80)In
side by side	7 ~ 9	(0.78~0.76)In	(0.78~0.76)In
(recommended value)	>9	0.76In	0.76In
Temperature compensation	Change for every 10°C increase from the reference temp	-(0.03~0.050)In	-(0.03~0.050)In
coefficient (recommended value)	Change for every 10°C decrease from the reference temp	-(0.04~0.07)In	-(0.04~0.07)In
value)	≤2000m	In	In
Rated current correction factor	3000m	0.96In	0.96In
for high altitude use	4000m	0.94In	0.94In
(recommended value)	5000m	0.92In	0.92In
	≤2000m	Ue	Ue Ue
Rated voltage correction factor	3000m	0.89Ue	0.89Ue
for high altitude use		0.78Ue	0.78Ue
(recommended value)	4000m	0.68Ue	0.68Ue
5000m Cable entry		Top-in, Bottom-out	Top-in, Bottom-out
Mounting			TH35-7.5-rail mounting
Pollution degree		TH35-7.5-rail mounting	•
. oation degree	Direct mounting	Pollution degree II	Pollution degree II
Protection class	Mounted in the distribution box	IP20 IP40	IP20 IP40
Accessories that can be asse	mbled	AX-X1, AL-X1, SHT-X1, OVT-X1, UVT-X1, OUVT-X1	AX-X1, AL-X1, SHT-X1, OVT-X1, UVT-X1, OUVT-X1

NXBLE-32	NXBLE-63	NXBLE-125	NXBLE-125G
IEC61009-1	IEC61009-1	IEC60947-2	IEC61009-1
6~32	6~63	63~125	63~125
0.03, 0.05, 0.075, 0.1, 0.3	0.03, 0.05, 0.075, 0.1, 0.3	0.03, 0.05, 0.075, 0.1, 0.3	0.03, 0.05, 0.075, 0.1, 0.3
AC	AC	AC	AC
240/415	240/415	240/415	240/415
50/60	50/60	50/60	50/60
1P+N, 2P, 3P, 3P+N, 4P	1P+N, 2P, 3P, 3P+N, 4P	1P+N, 2P, 3P, 3P+N, 4P	1P+N, 2P, 3P, 3P+N, 4P
20000	20000	20000	20000
10000	10000	6000(In≤100A), 4000(In>100A)	6000(In≤100A), 4000(In>100A)
6000	6000	10000	10000
6000	6000	7500	7500
4	4	4	4
(Power frequency 1 minute) 2000	(Power frequency 1 minute) 2000	(Power frequency 1 minute) 1890	(Power frequency 1 minute) 2000
28 cycles	28 cycles	28 cycles	28 cycles
1	1	6	6
25	25	50	50
2	2	3.5	3.5
2.5	2.5	4	4
12.5	12.5	15	15
30	30	30	30
-35~+70	-35~+70	-35~+70	-35~+70
-35~+85	-35~+85	-35~+85	-35~+85
5000	5000	5000	5000
•	•	3555	•
	•		•
	•		•
		•	
1In	1In	1In	1In
1.1In	1.1In	1.1In	1.1In
1.2In	1.2In	1.2In	1.2In
1.5In	1.5In	1.5In	1.5In
1.5In	1.5In	1.5In	1.5In
	1.511	2.511	2.0211
	(0.9~0.95) In	(0.9~0.95) In	(0.9~0.95) In
(0.9~0.95) In	(0.9~0.95) In	(0.9~0.95) In	(0.9~0.95) In
(0.9~0.95) In (0.86~0.80)In	(0.86~0.80)In	(0.86~0.80)In	(0.86~0.80)In
(0.9~0.95) In (0.86~0.80)In (0.78~0.76)In	(0.86~0.80)In (0.78~0.76)In	(0.86~0.80)In (0.78~0.76)In	(0.86~0.80)In (0.78~0.76)In
(0.9~0.95) In (0.86~0.80)In (0.78~0.76)In 0.76in	(0.86~0.80)In (0.78~0.76)In 0.76In	(0.86~0.80)In (0.78~0.76)In 0.76In	(0.86~0.80)In (0.78~0.76)In 0.76In
(0.9~0.95) In (0.86~0.80)In (0.78~0.76)In 0.76In -(0.03~0.050)In	(0.86~0.80)In (0.78~0.76)In 0.76In -(0.03~0.050)In	(0.86~0.80)In (0.78~0.76)In 0.76In -(0.03~0.050)In	(0.86~0.80)In (0.78~0.76)In 0.76In -(0.03~0.050)In
(0.9~0.95) In (0.86~0.80)In (0.78~0.76)In 0.76In -(0.03~0.050)In -(0.04~0.07)In	(0.86~0.80)In (0.78~0.76)In 0.76In -(0.03~0.050)In -(0.04~0.07)In	(0.86~0.80)In (0.78~0.76)In 0.76In -(0.03~0.050)In -(0.04~0.07)In	(0.86~0.80)In (0.78~0.76)In 0.76In -(0.03~0.050)In -(0.04~0.07)In
(0.9~0.95) In (0.86~0.80)In (0.78~0.76)In 0.76In -(0.03~0.050)In -(0.04~0.07)In	(0.86~0.80)In (0.78~0.76)In 0.76In -(0.03~0.050)In -(0.04~0.07)In	(0.86~0.80)In (0.78~0.76)In 0.76In -(0.03~0.050)In -(0.04~0.07)In In	(0.86~0.80)In (0.78~0.76)In 0.76In -(0.03~0.050)In -(0.04~0.07)In In
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Tripping characteristics

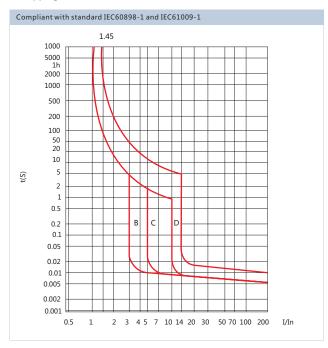
● Tripping characteristics are in compliant with standard IEC60898-1 and IEC61009-1

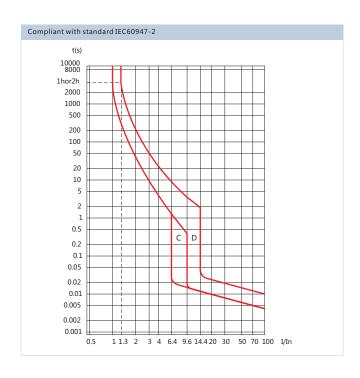
Test	Туре	Test current	Starting state	Trip/Not trip time limit	Expected outcome	Notes
a	B,C,D	1.13In	Cold	$t \le 1 \text{ h(for In} \le 63\text{A)}$ t < 2 h(for In > 63A)	Not trip	
b	B,C,D	1.45In	Right after test	t<1 h(for In≤63A) t<2 h(for In>63A)	Trip	Current increase steadily within 5s
c	B,C,D	2.55In	Right after test	1s <t<60s (for="" in≤32a)<br="">1s<t<120s (for="" in="">32A)</t<120s></t<60s>	Trip	
d	B C D	3In 5In 10In	Cold	t≤0.1s	Not trip	Connect the current by closing the auxiliary switch
e	B C D	5In 10In 20In	Cold	t<0.1s	Trip	Connect the current by closing the auxiliary switch

• Tripping characteristics are in compliant with standard IEC60947-2

Release type	Test current	Starting state	Trip/Not trip time limit	Expected outcome	Notes
C,D	1.05In	Cold	t≤1 h(for In≤63A) t≤2 h(for In > 63A)	— Not trip	
C,D	1.3In	Right after test	t < 1 h(for In ≤ 63A) t < 2 h(for In > 63A)	— Trip	Current increase steadily within 5s
C,D	2In	Cold	t < 900s	Trip	
С	6.4In	C-14	4.40.25		
D	9.6In	Cold	t≤0.2s	Not trip	Connect the current by
С	9.6In				closing the auxiliary switch
D	14.4In	Cold	t < 0.2s	Trip	

Tripping curve





Cross-sectional area of the connecting copper wire

• The following table shows the cross-sectional area of the copper wire corresponding to the rated current (recommended value):

Copper wire cross-sectional area Smm ²	Rated current In(A)
1	In≤8
1.5	8 < In≤12
2.5	12 <in≤20< th=""></in≤20<>
4	20 < In≤25
6	25 < In≤32
10	32 <in≤50< th=""></in≤50<>
16	50 <in≤63< th=""></in≤63<>
25	63 < In≤85
35	85 < In≤115
50	115 < In≤150

Product selection and order

Circuit breakers

Product model	Number of poles	Electromagnetic release type	Rated current	Rated residual operating current	
NXB-40					
NXBLE-40	1P+N	C, D	6A, 10A, 16A, 20A, 25A, 32A, 40A	0.01A, 0.03A	
NXB-63	1P, 1P+N, 2P, 3P, 3P+N, 4P	B, C, D	1A, 2A, 3A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A		
NXBLE-32	1P+N, 2P, 3P,	1P+N, 2P, 3P,	B, C, D	6A, 10A, 16A, 20A, 25A, 32A	0.03A, 0.05A, 0.075A,
NXBLE-63	3P+N, 4P	В, С, D	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A	0.1A, 0.3A	
NXBLE-63Y	1P+N	C, D	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A	0.01A, 0.03A	
NXB-80	1P, 1P+N, 2P	B, C, D	80A		
NXB-125	1P, 2P,	C, D			
NXB-125G	3P, 4P B, C, D		63A, 80A, 100A, 125A		
NXBLE-125	1P+N, 2P,	C, D	057, 007, 1007, 1257	0.03A, 0.05A, 0.075A,	
NXBLE-125G	3P, 3P+N, 4P	B, C, D		0.1A, 0.3A	

Ordering example:NXB-40 C16 50 units

NXB-63 3P D63 50 units

NXBLE-63 1P+N C63 0.03A 30 units

Surge protector

Product model	Remote signal contacts	Inrush current	Nominal discharge current	Open circuit voltage	Maximum continuous operating voltage	Number of poles
NXU-I+II	Default: No F: Yes	12.5kA			255V, 275V	1P, 1P+N, 2P, 3P, 3P+N, 4P
NXU-II	Default: No F: Yes		20kA, 40kA, 65kA, 100kA		255V, 275V, 320V, 385V, 440V	1P, 2P, 3P, 4P, 1P+N, 3P+N
NXU-Ⅲ				10kV	255V, 275V, 320V, 385V	1P+N, 2P

Ordering example: NXU-I+ Π /F 12.5kA 275V 2P 300 units

NXU-II/F 40kA 320V 2P 300 units NXU-III 10kV 320V 2P 300 units



Product description

Miniature Circuit Breaker	
NXB-63 Miniature Circuit Breaker	P-15
NXB-63H Miniature Circuit Breaker	P-16
NXB-40 Miniature Circuit Breaker	P-17
NXB-125 Moulded Case Circuit Breaker	P-18
NXB-125G Miniature Circuit Breaker	P-19
Residual current operated circuit breaker	(RCBO)
NXBLE-32 Residual current operated circuit breaker (RCBO)	P-20
NXBLE-63 Residual current operated circuit breaker (RCBO)	P-21
NXBLE-63Y Residual current operated circuit breaker (RCBO)	P-22
NXBLE-40 Residual current operated circuit breaker (RCBO)	P-23
NXBLE-125 Residual current operated circuit breaker (RCBO)	P-24
NXBLE-125G Residual current operated circuit breaker (RCBO)	P-25
Accessories	
AX-X1 Auxiliary contacts	P-26
AL-X1 Alarm auxiliary contact	P-27
SHT-X1 Shunt release	P-29
OVT-X1 Overvoltage release	P-31
UVT-X1 Under-voltage release	P-32
OUVT-X1 Over/under voltage release	P-33
AX-X3 Auxiliary contact	P-34
AL-X3 Alarm auxiliary contact	P-36
SHT-X3 Shunt release	P-38
OVT-X3 Overvoltage release	P-40
UVT-X3 Under-voltage release	P-41
OUVT-X3 Over/under voltage release	P-42
Surge protector	
NXU- I +II Surge protector	P-43
NXU- Π series surge protector	P-45
NXU-Ⅲ series surge protector	P-48
Isolation switch	
NXHB-125 Isolation switch	P-50

NXB-63 Miniature Circuit Breaker



NXB-63 Miniature Circuit Breaker

Compliant standards

IEC60898-1

Compliant certification

CF

Major function

Overload protection, short circuit protection, positive isolation

Technical parameters

Rated current: 1A, 2A, 3A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A;

Rated voltage: $240V \sim (1P, 1P+N), 415V \sim (2 \sim 4P, 3P+N);$

Frequency: 50/60Hz;

Electromagnetic release type: B, C, D; Number of poles: 1P, 1P+N, 2P, 3P, 3P+N, 4P;

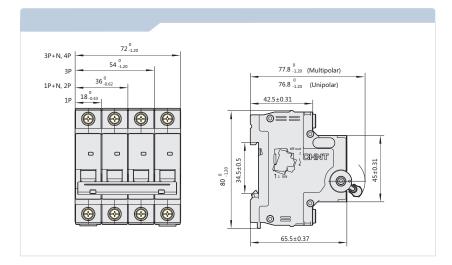
Mechanical life: 20000 cycles; Electrical life: 10000 cycles;

Rated short-circuit breaking capacity(Icu): 6000A; Short-circuit breaking capacity (Ics): 6000A; Rated impulse withstand voltage (Uimp): 4kV;

Power consumption on each pole of the circuit breaker: see Table 1.

Table 1

Rated current In (A)	Maximum power consumption per pole (W)
1~10	2
16~32	3.5
40~63	5



NXB-63H Miniature Circuit Breaker









NXB-63H Miniature Circuit Breaker

Compliant standards

GB10963.1,IEC60898-1

Compliant certification

CCC,CE

Major function

Overload protection, short circuit protection, positive isolation

Technical parameters

Rated current: 1A, 2A, 3A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A,;

Rated voltage: $240V \sim (1P, 1P+N), 415V \sim (2 \sim 4P, 3P+N);$

Frequency: 50/60Hz;

Electromagnetic release type: B, C, D;

Number of poles: 1P, 1P+N, 2P, 3P, 3P+N, 4P;

Mechanical life: 20000 cycles; Electrical life: 10000 cycles;

Rated short-circuit breaking capacity: 10000A;

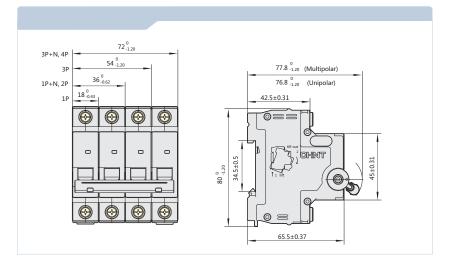
Short-circuit breaking capacity: 7500A;

Rated impulse withstand voltage: 4kV;

Power consumption on each pole of the circuit breaker: see Table 1.

Table 1

Rated current In (A)	Maximum power consumption per pole (W)
1~10	2
16~32	3.5
40~63	5



NXB-80 Miniature Circuit Breaker



NXB-80 Miniature Circuit Breaker

Compliant standards

IEC60898-1

Compliant certification

CE

Major function

Overload protection, short circuit protection, positive isolation

Technical parameters

Rated current: 80A; Rated voltage: 240V ~; Frequency: 50/60Hz;

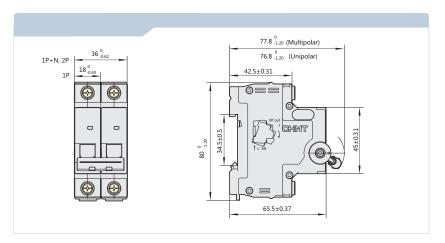
Electromagnetic release type: B, C, D; Number of poles: 1P, 1P+N, 2P; Mechanical life: 20000 cycles; Electrical life: 10000 cycles;

Rated short-circuit breaking capacity: see Table 1; Short-circuit breaking capacity: see Table 1; Rated impulse withstand voltage Uimp(kV): 4;

Power consumption on each pole of the circuit breaker: $\leq 6.5W$

Table 1

Model Numb		Rated short-circu breaking capacity	
1P, 1P	N 240V	6000A	6000A
NXB-80 2P	240V	6000A	6000A



NXB-40 Miniature Circuit Breaker



NXB-40 Miniature Circuit Breaker

Compliant standards

IEC60898-1

Compliant certification

CF

Major function

Overload protection, short circuit protection, positive isolation

Technical parameters

Rated current: 6A, 10A, 16A, 20A, 25A, 32A, 40A;

Rated voltage: 240V; Frequency: 50/60Hz;

Electromagnetic release type: C, D;

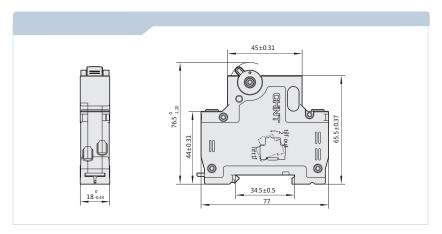
Number of poles: 1P+N; Mechanical life: 20000 cycles; Electrical life: 10000 cycles;

Rated short-circuit breaking capacity(Icu): 4500A; Short-circuit breaking capacity(Ics): 4500A; Rated impulse withstand voltage(Uimp): 4kV;

Power consumption on each pole of the circuit breaker: see Table 1.

Table 1

Rated current In (A)	Maximum power consumption per pole (W)
1~10	2
16~32	3.5
40	5



NXB-125 Moulded Case Circuit Breaker



NXB-125 Moulded Case Circuit Breaker

Compliant standards

IEC60947-2

Compliant certification

CE

Major function

Overload protection, short circuit protection, positive isolation

Technical parameters

Rated current: 63A, 80A, 100A, 125A;

Rated voltage: 240V ~ (1P), 415V ~ (2P, 3P, 4P);

Frequency: 50/60Hz;

Electromagnetic release type: C, D; Number of poles: 1P, 2P, 3P, 4P; Mechanical life: 20000 cycles;

Electrical life: 6000 cycles (In≤100A); 4000 cycles (In>100A);

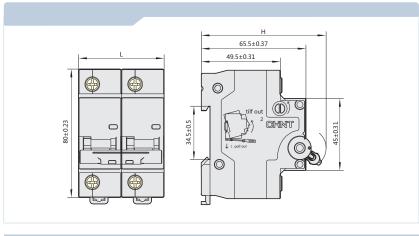
Rated short-circuit breaking capacity(Icu): 10000A;

Short-circuit breaking capacity(Ics): 7500A; Rated impulse withstand voltage(Uimp): 4kV;

Power consumption on each pole of the circuit breaker: see Table 1.

Table 1

Rated current In (A)	Maximum power consumption per pole (W)
63	3.5
80	5.5
100	7.5
125	11.5



	1P	2P	3P	4P
L(mm)	27 -0.52	54 -0.74	81 -0.87	108 -1.40
H(mm)	75.5 -1.20	78.5 -1.20	78.5 -1.20	78.5 -1.20

NXB-125G Miniature Circuit Breaker



NXB-125G Miniature Circuit Breaker

Compliant standards

IEC60898-1

Compliant certification

CE

Major function

Overload protection, short circuit protection, positive isolation

Technical parameters

Rated current: 63A, 80A, 100A, 125A;

Rated voltage: 240V ~ (1P), 415V ~ (2P, 3P, 4P);

Frequency: 50/60Hz;

Electromagnetic release type: B, C, D;

Number of poles: 1P, 2P, 3P, 4P; Mechanical life: 20000 cycles;

Electrical life: 6000 cycles (In≤100A); 4000 cycles (In>100A);

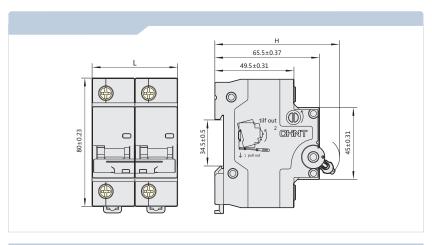
Rated short-circuit breaking capacity(Icu): 10000A;

Short-circuit breaking capacity(Ics): 7500A; Rated impulse withstand voltage(Uimp): 4kV;

Power consumption on each pole of the circuit breaker: see Table 1.

Table 1

Rated current In (A)	Maximum power consumption p r pole (W)
63	3.5
80	5.5
100	7.5
125	11.5



	1P	2P	3P	4P
L(mm)	27-0.52	54 -0.74	81-0.87	108 -1.40
H(mm)	75.5 -1.20	78.5 -1.20	78.5 -1.20	78.5 -1.20

NXBLE-32 Residual current operated circuit breaker (RCBO)



NXBLE-32 Residual current operated circuit breaker (RCBO)

Compliant standards

IEC61009-1

Compliant certification

CE

Major function

Overload protection, short circuit protection, positive isolation, residual current operation

Technical parameters

Rated current: 6A, 10A, 16A, 20A, 25A, 32A;

Rated residual operating current: 0.03A, 0.05A, 0.075A, 0.1A, 0.3A;

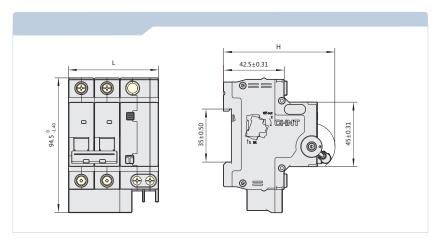
Rated voltage: 240V ~ (1P+N, 2P), 415V ~ (3P, 3P+N, 4P);

Frequency: 50/60Hz;

Electromagnetic release type: B, C, D; Number of poles: 1P+N, 2P, 3P, 3P+N, 4P;

Mechanical life: 20000 cycles; Electrical life: 10000 cycles;

Rated short-circuit breaking capacity(Icu): 6000A; Short-circuit breaking capacity(Ics): 6000A; Rated impulse withstand voltage(Uimp): 4kV.



	1P+N	20	20	3P+N	4D
	TP+IN	2P	3P	3P+IN	4P
L(mm)	45 -0.62	63 -0.74	90 -1.40	99 -1.40	117 -1.60
H(mm)	76.8 -1.20	77.8 -1.20	77.8 -1.20	77.8 -1.20	77.8 -1.20

NXBLE-63 Residual current operated circuit breaker (RCBO)



NXBLE-63 Residual current operated circuit breaker (RCBO)

Compliant standards

1EC61009-1

Compliant certification

CF

Major function

Overload protection, short circuit protection, isolation, residual current operation

Technical parameters

Rated current: 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A; Rated residual operating current: 0.03A, 0.05A, 0.075A, 0.1A, 0.3A;

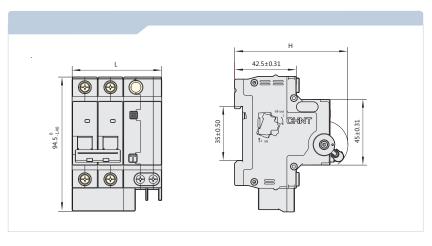
Rated voltage: 240V ~ (1P+N, 2P), 415V ~ (3P, 3P+N, 4P);

Frequency: 50/60Hz;

Electromagnetic release type: B, C, D; Number of poles: 1P+N, 2P, 3P, 3P+N, 4P;

Mechanical life: 20000 cycles; Electrical life: 10000 cycles;

Rated short-circuit breaking capacity(Icu): 6000A; Short-circuit breaking capacity(Ics): 6000A; Rated impulse withstand voltage(Uimp): 4kV;



	1P+N	2P	3P	3P+N	4P
L(mm)	54 -0.74	72 -0.74	103.5 0	117 -1.40	135 -1.60
H(mm)	76.8 -1.20	77.8 -1.20	77.8 -1.20	77.8 -1.20	77.8 -1.20

NXBLE-63Y Residual current operated circuit breaker (RCBO)



NXBLE-63Y Residual current operated circuit breaker (RCBO)

Compliant standards

1EC61009-1

Compliant certification

CE

Major function

Overload protection, short circuit protection, isolation, residual current operation

Technical parameters

Rated current: 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A;

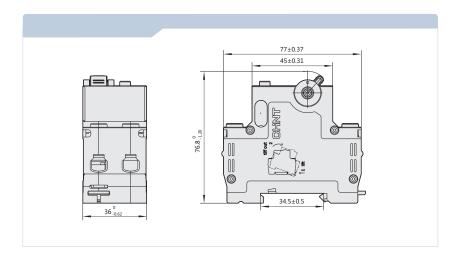
Rated residual operating current: 0.01A, 0.03A;

Rated voltage: 240V ~ ; Frequency: 50/60Hz;

Electromagnetic release type: C, D;

Number of poles: 1P+N; Mechanical life: 20000 cycles; Electrical life: 10000 cycles;

Rated short-circuit breaking capacity(Icu): 4500A; Short-circuit breaking capacity(Ics): 4500A; Rated impulse withstand voltage(Uimp): 4kV;



NXBLE-40 Residual current operated circuit breaker (RCBO)



NXBLE-40 Residual current operated circuit breaker (RCBO)

Compliant standards

1EC61009-1

Compliant certification

CF

Major function

Overload protection, short circuit protection, isolation, residual current operation

Technical parameters

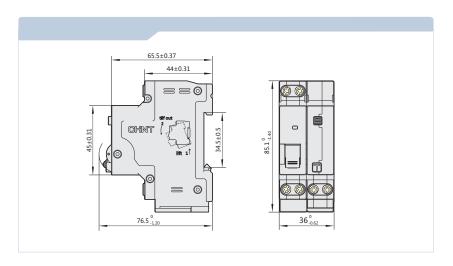
Rated current: 6A, 10A, 16A, 20A, 25A, 32A, 40A; Rated residual operating current: 0.01A, 0.03A;

Rated voltage: 240V ~ ; Frequency: 50/60Hz;

Electromagnetic release type: C, D;

Number of poles: 1P+N; Mechanical life: 20000 cycles; Electrical life: 10000 cycles;

Rated short-circuit breaking capacity(Icu): 4500A; Short-circuit breaking capacity(Ics): 4500A; Rated impulse withstand voltage(Uimp): 4kV.



NXBLE-125 Residual current operated circuit breaker (RCBO)



NXBLE-125 Residual current operated circuit breaker (RCBO)

Compliant standards

EC60947-2

Compliant certification

CE

Major function

Overload protection, short circuit protection, isolation, residual current operation

Technical parameters

Rated current: 63A, 80A, 100A, 125A;

Rated residual operating current: 0.03A, 0.05A, 0.075A, 0.1A, 0.3A;

Rated voltage: 240V ~ (1P+N, 2P), 415V ~ (3P, 3P+N, 4P);

Frequency: 50/60Hz;

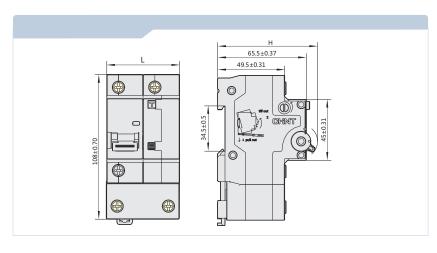
Electromagnetic release type: C, D; Number of poles: 1P+N, 2P, 3P, 3P+N, 4P;

Mechanical life: 20000 cycles;

Electrical life: 6000 cycles (In≤100A); 4000 cycles (In> 100A);

Rated short-circuit breaking capacity(Icu): 10000A;

Short-circuit breaking capacity(Ics): 7500A; Rated impulse withstand voltage(Uimp): 4kV.



	1P+N	2P	3P	4P	
L(mm)	54 -0.74	81 -0.87	108 -1.40	135 -1.60	
H(mm)	75.5 -1.20	78.5 -1.20	78.5 -1.20	78.5 -1.20	

NXBLE-125G Residual current operated circuit breaker (RCBO)



NXBLE-125G Residual current operated circuit breaker (RCBO)

Compliant standards

1EC61009-1

Compliant certification

CF

Major function

Overload protection, short circuit protection, isolation, residual current operation

Technical parameters

Rated current: 63A, 80A, 100A, 125A;

Rated residual operating current: 0.03A, 0.05A, 0.075A, 0.1A, 0.3A;

Rated voltage: 240V ~ (1P+N, 2P), 415V ~ (3P, 3P+N, 4P);

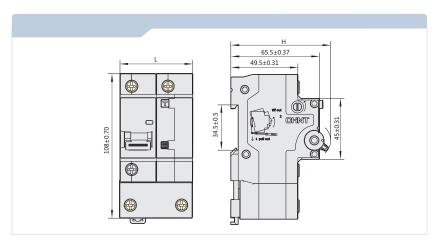
Frequency: 50/60Hz;

Electromagnetic release type: B, C, D; Number of poles: 1P+N, 2P, 3P, 3P+N, 4P;

Mechanical life: 20000 cycles;

Electrical life: 6000 cycles (In \leq 100A); 4000 cycles (In>100A);

Rated short-circuit breaking capacity(Icu): 10000A; Short-circuit breaking capacity(Ics): 7500A; Rated impulse withstand voltage(Uimp): 4kV.



	1P+N	2P	3P	4P	
L(mm)	54 -0.74	81 -0.87	108 -1.40	135 -1.60	
H(mm)	75.5 -1.20	78.5 ·1.20	78.5 -1.20	78.5 -1.20	

AX-X1 Auxiliary contacts



AX-X1 Auxiliary contacts

Compliant standards

IEC60947-5-1

Compliant certification

CE

Major function

To achieve long-distance signal indication for the open/close status of the circuit breaker

Parameters and performance

Table 1

	Utilization category	Rated operating voltage V	Rated operating current A
	AC-12	AC 415	3
		AC 240	6
DC-12		DC 130	1
	0.6.40	DC 48	2
	DC-12	DC 24	6

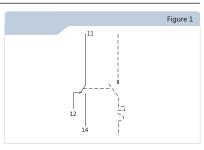
Action characteristics: Figure 1 shows the wiring diagram for auxiliary contacts.

When the auxiliary contacts is open, terminals

11 and 12 are connected;

When the auxiliary contacts is closed, terminals 11 and 14 are connected.

Life: Operating life of auxiliary contacts is ≥ 10000 cycles.

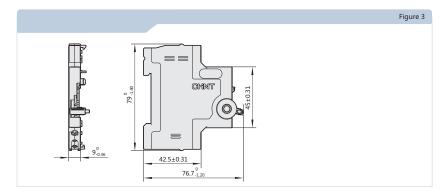


Assembly and installation of the product

Can be assembled with NXB-63, NXB-40 series circuit breakers, with assembly diagram shown below:



After AX-X1 is assembled with the circuit breaker, mount them on the TH3.5-7.5 steel mounting rail.



AL-X1 Alarm auxiliary contact



AL-X1 Alarm auxiliary contact

Compliant standards

IEC60947-5-1

Compliant certification

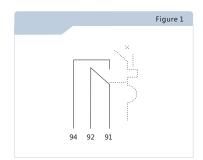
CE

Major function

To achieve signal indication over long distance for open/close status of the circuit breaker and alarm.

Parameters and performance Table 1 Utilization category Rated operating voltage V Rated operating current A AC 415 3 AC-12 AC 240 6 DC 130 1 DC-12 DC 48 2 DC 34 6

Action characteristics: Figure 1 shows the wiring diagram for auxiliary contact. When the auxiliary contact is open, terminals 91 and 94 are connected; When the auxiliary contact is closed, terminals 91 and 92 are connected. When the alarm auxiliary contact is closed, and manually opened with the handle, terminals 91 and 92 shall still be connected; when the alarm auxiliary contact is closed, and the assembled circuit trip is open due to error, terminals 91 and 92 shall be open, and terminals 91 and 94 shall be connected; Life: Operating life of alarm auxiliary contact is \geq 10000 cycles.

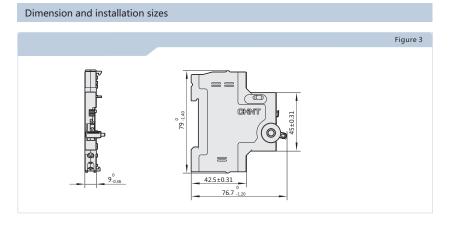


Assembly and installation of the product

Can be assembled with NXB-63, NXB-40 series circuit breakers, with assembly diagram shown below:



After AL-X1 is assembled with the circuit breaker, mount them on the TH3.5-7.5 steel mounting rail.



SHT-X1 Shunt release



SHT-X1 Shunt release

Major function

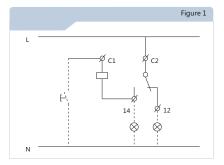
To be assembled with the circuit breaker to achieve remote shunt trip.

Parameters and performance

Rated insulation voltage (Ui): 500V; Rated operation current under different rated operation voltage (see Table 1): Utilization category: AC-12, DC-12.

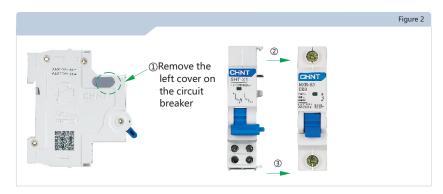
Action characteristics: within the range of 70% ~ 110% of the rated control supply voltage, the release should operate reliably to open the circuit breaker. Figure 1 shows the wiring diagram for the release. When the release is open, terminal C2 and 12 shall be connected, and the external security indicator shall light up; when the release is closed, terminal C2 and 14 shall be connected, and the external warning indicator shall light up; when the release is closed, and the external button is connected, the release shall trip and drive the circuit breaker to trip and be opened. Meanwhile, the release indicator shall display trip mark. Mechanical life: operating life of the release is \geq 4000 cycles.

	Table 1
Rated operating voltage (V)	Rated operating current (A)
AC 415	3
AC 240	6
AC/DC 48	3
AC/DC 24	6



Assembly and installation of the product

SHT-X1 can be assembled with NXB-63 or NXB-40 series circuit breaker, with the assembly diagram shown below:



After SHT-X1 is assembled with the circuit breaker, mount them on TH35-7.5 steel mounting rail.

SHT-X1 Shunt release

Figure 3

OVT-X1 Overvoltage release



OVT-X1 Overvoltage release

Major function

To be assembled with the circuit breaker to achieve overvoltage protection.

Parameters and performance

Rated operation voltage Ue: AC 240V 50Hz (or 60Hz).

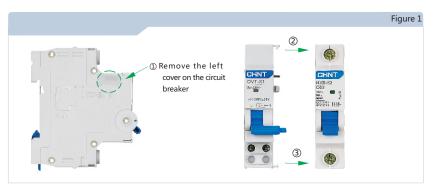
Rated insulation voltage Ui: 500V.

Overvoltage setting value Uvo: 280V.

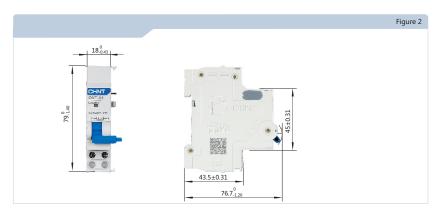
Release action characteristics: when the main circuit voltage is in the range of (85% \sim 110%) Ue, the release shall be able to keep the circuit breaker to work reliably for long term. When the main circuit voltage is increased to 280 (1 \pm 5%) V, the release assembled with NXB-63 series circuit breaker should act and trip open NXB-63 circuit breaker. Mechanical and electrical life: the mechanical and electrical life of release is \geq 4000 operation cycles.

Assembly and installation of the product

OVT-X1 can be assembled with NXB-63 or NXB-40 series circuit breaker, with the assembly diagram shown below:



After the release is assembled with the circuit breaker, mount them on TH35-7.5 steel mounting rail.



UVT-X1 Under-voltage release



UVT-X1 Under-voltage release

Major function

To be assembled with the circuit breaker to achieve overvoltage protection.

Parameters and performance

Rated operation voltage Ue: AC 240V

Rated insulation voltage Ui 500V

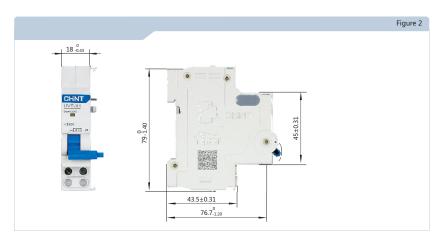
Action characteristics: when the applied voltage \leq 35% Ue, the product should prevent circuit breaker from closing; when 35% Ue \leq applied voltage \leq 70% Ue, the product should operate and drive the circuit breaker open; when the applied voltage \geq 85% Ue, the product should be able to close. The applied voltage should not exceed 110%Ue. Life: the operating life of the release is \geq 4000 cycles.

Assembly and installation of the product

UVT-X1 can be assembled with NXB-63 or NXB-40 series circuit breaker, with the assembly diagram shown below:



After the release is assembled with the circuit breaker, mount them on TH35-7.5 steel mounting rail.



OUVT-X1 Over/under voltage release



OUVT-X1 Over/under voltage release

Major function

To be assembled with circuit breaker to achieve over/under voltage protection

Parameters and performance

Rated operation voltage Ue: AC 240V, 50Hz;

Overvoltage operation setting value Uvo: 280V;

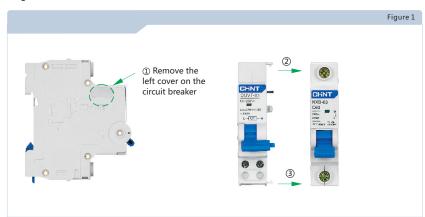
Rated insulation voltage Ui: 500V;

Tripping characteristics: the release is assembled with NXB-63 series circuit breaker. When the applied voltage is reduced to 35%Ue or increased to 95% \sim 105% of the over-voltage setting value, the release should drive the circuit breaker to act. When the applied voltage is below 35%Ue or above 105% of the over-voltage setting value, the release should be able to prevent the circuit breaker from closing. When the supply voltage is above 85% Ue and below 95% of over-voltage setting value, the circuit breaker should be able to close normally. The upper limit of the applied voltage should be less than 110% over-voltage operation setting value.

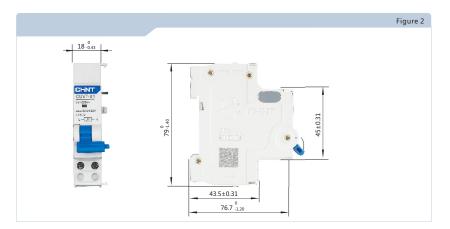
Mechanical and electrical life: the mechanical and electrical life after the release is assembled with the circuit breaker should be \geq 4000 cycles, of which, 500 cycles for over-voltage trip and under-voltage trip each, and 3000 cycles for the open/close of the circuit breaker.

Assembly and installation of the product

OUVT-X1 can be assembled with NXB-63 or NXB-40 series circuit breaker, with the assembly diagram shown below:



After AL-X1 is assembled with the circuit breaker, mount them on the TH3.5-7.5 steel mounting rail.





AX-X3 Auxiliary contact

Major function

IEC60947-5-1

Compliant certification

CE

Major function

To be assembled with the circuit breaker to achieve long-distance signal indication for the open/close status of the circuit breaker

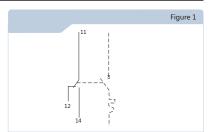
Parameters and performance

Rated operating currents under different working voltages:

Utilization category	Rated operating voltage V	Rated operating current A
46.12	AC 415	3
AC-12	AC 240	6
	DC 130	1
DC-12	DC 48	2
	DC 24	6

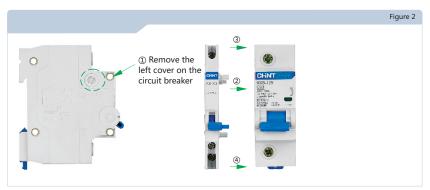
Action characteristics: Figure 1 shows the wiring diagram for auxiliary contacts. When the auxiliary contacts is open, terminals 11 and 12 is connected; When the auxiliary contacts is closed, terminals 11 and 14 is connected.

Life: Operating life of auxiliary contacts is \geq 10000 cycles.



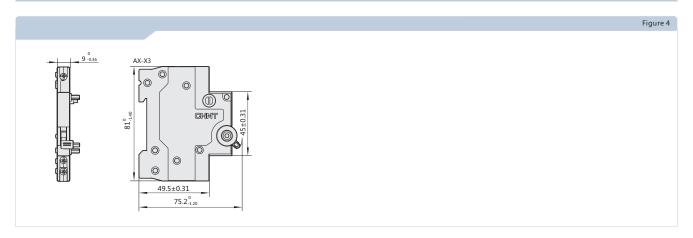
Assembly and installation of the product

AX-X3 can be assembled with NXB-125, NXB-125G series circuit breaker, with the assembly diagram shown below:



After AX-X3 is assembled with the circuit breaker, mount them on the TH3.5-7.5 steel mounting rail.

AX-X3 Auxiliary contact



AL-X3 Alarm auxiliary contact



AL-X3 Alarm auxiliary contact

Compliant standards

IEC60947-5-1

Compliant certification

CE

Major function

To be assembled with the circuit breaker to achieve signal indication over long distance for open/close status of the circuit breaker and alarm.

Parameters and performance

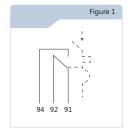
Rated operation currents under different working voltages:

Table 1

Utilization category	R	ated operating voltage V	Rated operating current A
46.40	AC 415		3
AC-12	AC 240		6
	DC 130		1
DC-12	DC 48		2
	DC 24		6

Action characteristics: Figure 1 shows the wiring diagram for auxiliary contact.

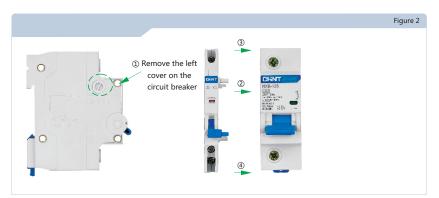
When the auxiliary contact is open, terminals 91 and 94 is connected; When the auxiliary contact is closed, terminals 91 and 92 is connected. When the alarm auxiliary contact is closed, and manually open with the handle, terminals 91 and 92 shall still be connected; when the alarm auxiliary contact is closed, and the assembled circuit trip open due to error, terminals 91 and 92 shall be open, and terminals 91 and 94 shall be connected;



Life: Operating life of alarm auxiliary contact is ≥ 10000 cycles.

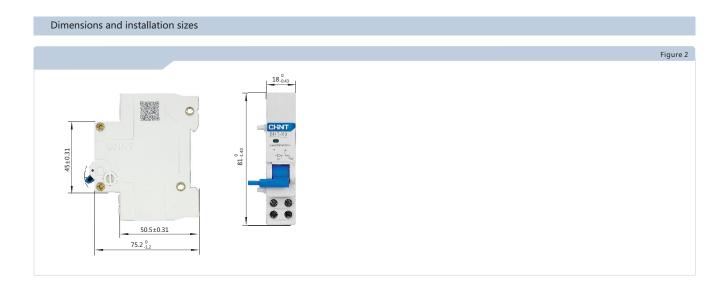
Assembly and installation of the product

AL-X3 can be assembled with NXB-125 series circuit breaker, with the assembly diagram shown below:



After AL-X3 is assembled with the circuit breaker, mount them on the TH3.5-7.5 steel mounting rail.

AX-X3 Auxiliary contact



SHT-X3 Shunt release



SHT-X3 Shunt release

Major function

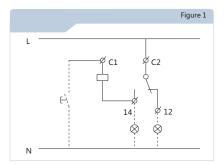
To be assembled with the circuit breaker to achieve remote shunt trip.

Parameters and performance

Rated insulation voltage (Ui): 500V; Rated operation current under different rated operation voltage (see Table 1): Utilization category: AC-12, DC-12.

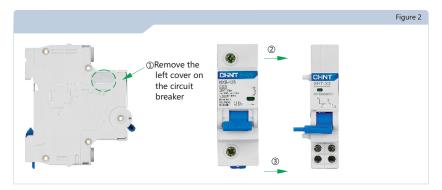
Action characteristics: within the range of 70% ~ 110% of the rated control supply voltage, the release should operate reliably to open the circuit breaker. Figure 1 shows the wiring diagram for the release. When the release is open, terminal C2 and 12 shall be connected, and the external security indicator shall light up; when the release is closed, terminal C2 and 14 shall be connected, and the external warning indicator shall light up; when the release is closed, and the external button is connected, the release shall trip and drive the circuit breaker to trip and be opened. Meanwhile, the release indicator shall display trip mark. Mechanical life: operating life of the release is ≥ 4000 cycles.

	Table 1
Rated operating voltage (V)	Rated operating current (A)
AC 415	3
AC 240	6
AC/DC 48	3
AC/DC 24	6



Assembly and installation of the product

SHT-X3 can be assembled with NXB-125 circuit breaker, with the assembly diagram shown below:



After the release is assembled with the circuit breaker, mount them on TH35-7.5 steel mounting rail.

SHT-X1 Shunt release

Pigure 3 Figure 3 Figure 3 Augustian August

OVT-X3 Overvoltage release



OVT-X3 Overvoltage release

Major function

To be assembled with the circuit breaker to achieve overvoltage protection.

Parameters and performance

Rated operation voltage Ue: AC 240V 50Hz (or 60Hz).

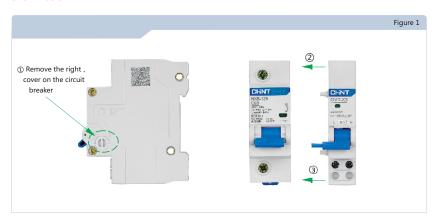
Rated insulation voltage Ui: 500V.

Overvoltage setting value Uvo: 280V.

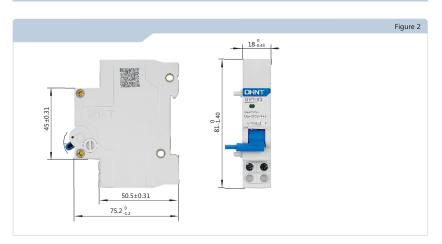
Release action characteristics: when the main circuit voltage is in the range of (85% \sim 110%) Ue, the release shall be able to keep the circuit breaker to work reliably for long term. When the main circuit voltage is increased to 280 (1 \pm 5%) V, the release assembled with NXB-125series circuit breaker should act and trip open NXB-125 circuit breaker. Mechanical and electrical life: the mechanical and electrical life of release is \geq 4000 operation cycles.

Assembly and installation of the product

OVT-X3 can be assembled with NXB-125 series circuit breaker, with the assembly diagram shown below:



After the release is assembled with the circuit breaker, mount them on TH35-7.5 steel mounting rail.



UVT-X3 Under-voltage release



UVT-X3 Under-voltage release

Major function

To be assembled with the circuit breaker to achieve under-voltage protection

Parameters and performance

Rated operation voltage Ue: AC240V

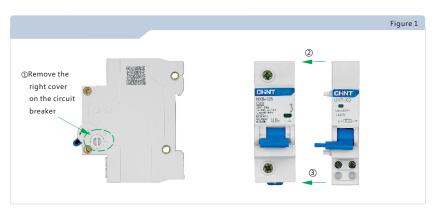
Rated insulation voltage Ui 500V

Life: the operating life of the release is \geq 4000 cycles.

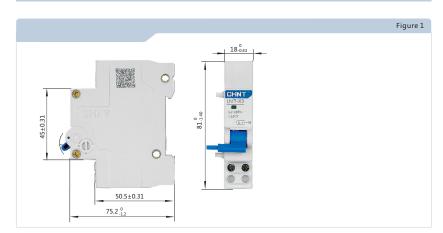
Action characteristics: when the applied voltage \leq 35% Ue, the product should prevent circuit breaker from closing; when 35% Ue \leq applied voltage \leq 70% Ue, the product should operate and drive the circuit breaker open; when the applied voltage \leq 85% Ue, the product should be able to close. The applied voltage should not exceed 110%Ue.

Assembly and installation of the product

UVT-X3 can be assembled with NXB-125 series circuit breaker, with the assembly diagram shown below:



After the release is assembled with the circuit breaker, mount them on TH35-7.5 steel mounting rail.



OUVT-X3 Over/under voltage release



OUVT-X3 Over/under voltage release

Major function

To be assembled with circuit breaker to achieve over/under voltage protection

Parameters and performance

Rated operation voltage Ue: AC240V, 50Hz;

Overvoltage operation setting value Uvo: 280V;

Rated insulation voltage Ui: 500V;

Tripping characteristics: the release is assembled with NXB-125 series circuit breaker. When the applied voltage is reduced to 35%Ue or increased to 95% \sim 105% of the over-voltage setting value, the release should drive the circuit breaker to act. When the applied voltage is below 35%Ue or above 105% of the over-voltage setting value, the release should be able to prevent the circuit breaker from closing. When the supply voltage is above 85% Ue and below 95% of over-voltage setting value, the circuit breaker should be able to close normally. The upper limit of the applied voltage should be less than 110% over-voltage operation setting value.

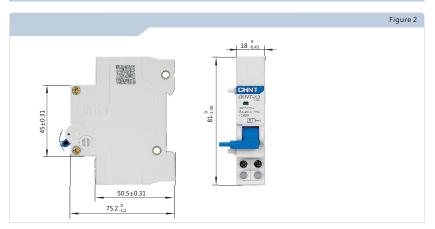
Mechanical and electrical life: the mechanical and electrical life after the release is assembled with the circuit breaker should be \geq 4000 cycles, of which, 500 cycles for over-voltage trip and under-voltage trip each, and 3000 cycles for the open/close of the circuit breaker.

Assembly and installation of the product

OUVT-X3 can be assembled with NXB-125 series circuit breaker, with the assembly diagram shown below:



After OUVT-X3 is assembled with the circuit breaker, mount them to TH35-7.5 steel mounting rail.



NXU-I+II Surge protector



NXU- I + Π Surge protector

Compliant standards

IEC/EN61643-11。

Compliant certification

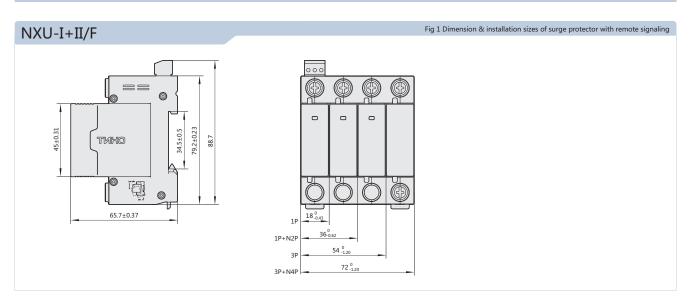
CE

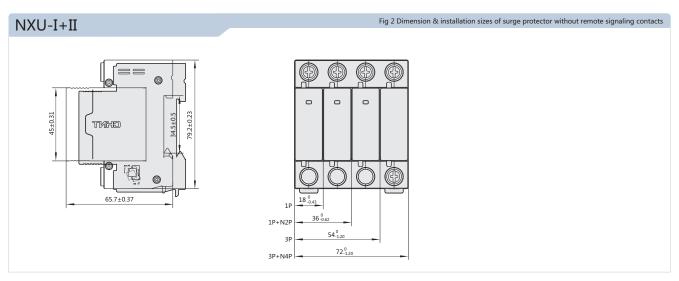
Major function

Lightning protection and surge protection for the inlet cabinet

Technical parameters

NXU-I+II									
General distribution protection (IEC/EN 61643-11; GB18802.1)							Name of the state		Construction of the second of
Number of poles		1P	2P	3P	4P	1P	+N	3P+N	
Protection mode		L-PE L-N	L-PE N-PE	L-PE	L-PE N-PE	L-N	N-PE	L-N	N-PE
Electrical Performance				'					
Test category					I, II				
Frequency	(Hz)				50/60				
Maximum continuous operation voltage	(V)				275		255	275	255
Inrush current (10 / 350µs) Iimp (kA)	(kA)				12.5		50	12.5	50
Nominal discharge current (8 / 20µs) In	(kA)				25		50	25	50
Maximum discharge current (8 / 20µs) Imax	(kA)				50		60	50	50
Voltage protection level Up	(kA)				1.5		1.5	1.5	1.5
Rated load current IL	(A)				-		-	-	-
Rated opening follow current value Ifi	(A)			No fo	llow current		100	No follow current	100
Maximum backup fuse (gL / gG)	(A)				160		-	160	-
Short circuit current withstand capacity when maximum backup fuse	(kA)				10		-	10	-
Remote control and indication				This fo	unction is optional accordi	ng to the nee	ed.		
Operation status/fault indication				G	Green/Red			Green/Red	
Remote signaling terminals connection cap	acity			M	lax 1.5mm²			Max 1.5mm²	
Described and authorities and little	AC			2	250V/0.5A			250V/0.5A	
Remote signal switching capability	DC	250V/0.1A;75V/0.5A					250V/0.1A;75V/0.5A		
Protection class					IP20				
Mounting					TH35-7.5 / DIN35	rail mountin	g		
Wire stripping length	(mm)				12				
Connection capacity	(mm²)				2.5 ~ 3	5			
Screw size		M5							
Rated torque	(N·m)	2.5							
Torque limit	(N·m)	5							
Ambient temperature	(°C)				-40~+	70			
Altitude	(m)	≤2000							
Relative humidity					≤95% @+ 20 °C;≤5	i0% @+ 40 °	С		
Installation environment		No significant vibration and shock							
Weight	(g)	157	300	437	578		09	569	





NXU-Iseries surge protector



NXU-II series surge protector

Compliant standards

IEC/EN61643-11.

Compliant certification

CE

Major function

Lightning protection and surge protection for the inlet cabinet

Parameters and performance

Basic parameters and technical performance indicators (see Table 1)

Table 1

Technical parameters	Parameter value
Maximum discharge current (kA)	20, 40, 65, 100
Maximum continuous operation voltage (V ~)	255, 275, 320, 385, 440
Nominal discharge current (kA)	10, 20, 30, 40
Voltage protection level (kV)	1.2, 1.3, 1.5, 1.6, 1.8, 1.9, 2.0, 2.2
Number of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N
Connecting wires (mm²)	≤16
Tightening torque (N·m)	2.0
protection degree	IP20
Dimensions	See Fig 2-5
Backup protection fuses	See Table 3

Select the appropriate size depending on the grounding system and protection mode.

Table 2

Groundin	g system	TT	TN-C	TN-S	IT	Notes
Maxi um o	operation voltage of Js.max	345V	253V	253V	400V	Refer IEC 60364-5-534
	Common mode protect Uc=255V,275V,320V	ion*_	1P, 3P	2P, 4P	_	We reommend to choose 320V
NXU-II	Common mode protect Uc=385V	ion* _{2P,} 4P	1P, 3P	2P, 4P	-	
	Common mode protect Uc=385V	ion* 2P, 4P	1P, 3P	2P, 4P	3P	

^{*} Common mode protection: phase-to-ground and neutral-ground protection.

Backup fuse selection

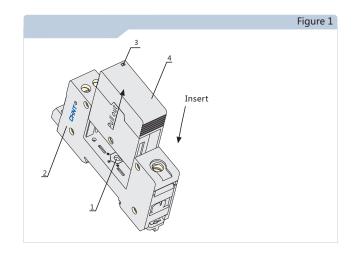
Table 3

Surge protector model	Maximum discharge	Backup fuse		
	current (kA)	Rated current (A)	Breaking range	
NXU-II	20	63	gL/gG	
	40	125	gL/gG	
	65	160	gL/gG	
	100	250	gL/gG	

NXU-Iseries surge protector

Special feature:

- a. NXU- II surge protector consists of two major components, the protection module (4) and base (2), their structures are completely independent of each other, and can be plugged/unplugged as shown in Figure 1.
- b. NXU- II surge protector is configured with a degradation indicator (3), as shown in the figure. After the product gets degraded, it shall pop up on the surface of protection module (4) for warning. The protection module (4) should be immediately replaced, and there is no need to disconnect the line or rewire.
- (1) in the figure is the maximum continuous operation voltage indication of the surge protector, it can also be used to prevent modules of erroneous dimensions get inserted when changing the module. The value pointed by the heart-shaped angular pointer is the maximum continuous operation voltage of the product.

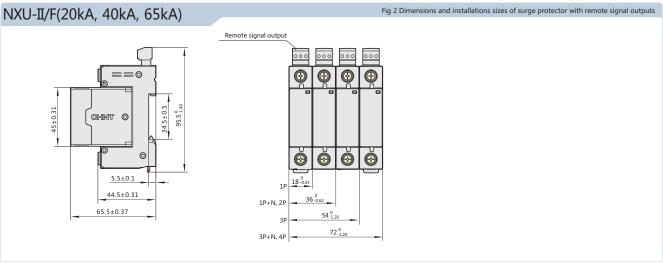


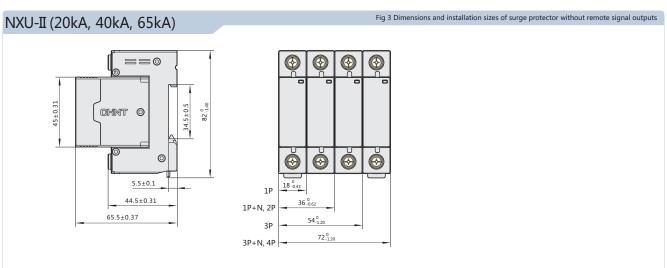
Dimensions and installation sizes

See Table 4, Figure 2-5 for dimensions and installation sizes.

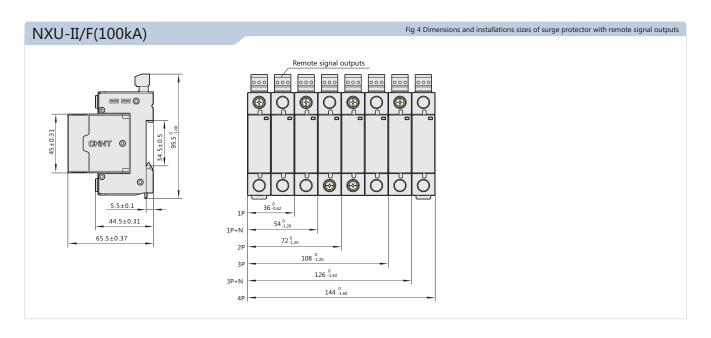
Table 4

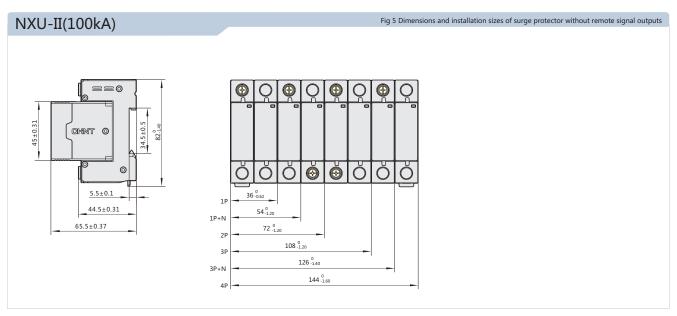
Maximum discharge current	Dimensions mm	Dimensions mm				
Imax (kA)	1P	2P	3P	4P		
20, 40, 65	18	36	54	72		
100	36	72	108	144		





NXU-Iseries surge protector





NXU-**II** series surge protector



NXU-Ⅲ series surge protector

Compliant standards

IEC/EN61643-11.

Compliant certification

CE

Major function

Inhibit transient over-voltage amplitude and relieve surge energy.

Parameters and performance

Basic parameters and technical performance indicators (see Table 1)

Table 1

Technical parameters	Parameter value
Test category	Category III
Open-circuit voltage (kV)	10
Short circuit current (kA)	5
Maximum continuous operation voltage (V ~)	255, 275, 320, 385
Voltage protection level (kV)	1.5
Number of poles	1P+N, 2P
Connecting wires (mm2)	≤16
Tightening torque (N·m)	1.2, 2.0
protection degree	IP20
Dimensions and installation sizes	See Fig 2 and Fig 3
Backup protection circuit breaker	NB1-63 C10

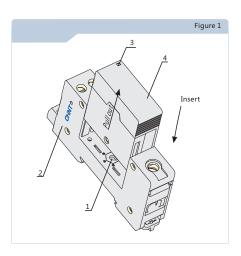
Design type and protection mode combination corresponding to different models of surge protector (see Table 2)

Table 2

Open circuit voltage (1.2/50µs) (kV)	Maximum continuous operation voltage Uc (V ~)	Design type and pole number combination
10	320 385	Compound 2P
10	275	Compound 1P+N

Special feature:

The surge protector is configured with a degradation indicator (3), as shown in Figure 1. After the product gets degraded, it shall pop up on the surface of protection module (4) for warning. The protection module (4) should be immediately replaced, and there is no need to disconnect the line or rewire. (1) is the maximum continuous operation voltage indication of the surge protector, it can also be used to prevent modules with erroneous dimensions get inserted when changing the module. The value pointed by the heart-shaped angular pointer is the maximum continuous operation voltage of the product.



NXU-**II** series surge protector

Surge protector maximum continuous operation voltage Uc selection:

Table 3

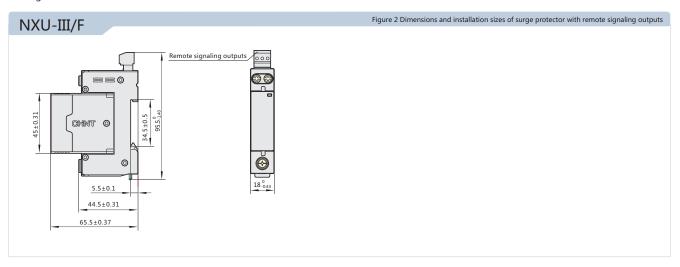
Grounding system	m	TT	TN	IT	NOTE
Maximum operat	tion voltage of the grid Us.max	345V	253V	400V	Refer IEC 60364-5-534
NUC III	Common mode protection* Uc=320V,385V		2P		
NU6-Ⅲ	Differential mode protection* Uc=275V	1P+N	_		

Common mode protection: phase-to-ground and neutral-ground protection.

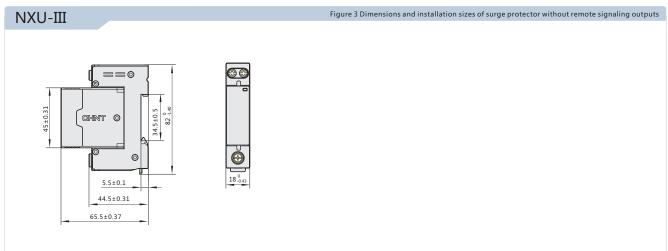
Differential mode protection: phase-to-phase or phase-to-neutral, neutral-to-ground protection.

Dimensions and installation sizes

See Figure 2 and 3 for dimensions and installation sizes.



TH35 - 7.5 steel rail mounting.



NXHB-125 Isolation switch



NXHB-125 Isolation switch

Compliant standards

IEC60947-3

Compliant certification

CE

Major function

Isolation function

Parameters and performance

Rated current Ie: 20A, 32A, 40A, 63A, 80A, 100A, 125A;

Number of poles: 1P, 2P, 3P, 4P; Rated insulation voltage Ui: 500V;

Rated operation voltage Ue: 240V~(1P), 415V~(2P, 3P, 4P);

Rated impulse withstand voltage Uimp: 6kV;

Rated short time withstand current Icw: 12 Ie, power-on time of 1s;

Rated short-circuit making capacity Icm: 20Ie, power-on time of 0.1s;

Rated making and breaking capacity: 3Ie, 1.05Ue, COS ϕ =0.65;

Operation performance: mechanical life of 10,000 cycles, electrical life of 3000 cycles;

Pollution degree: II;

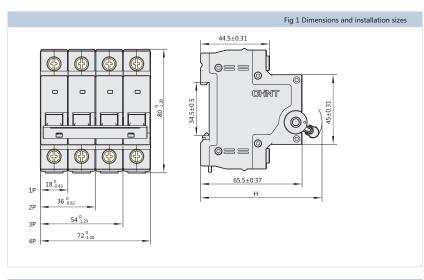
Utilization category: AC-22A, AC-21B;

Installation category: II, III;

Installation: TH35-7.5 steel rail mounting, the gradient of the mounting surface from the vertical plane should be $\leq 5^{\circ}$;

Wiring: screw clamp wiring, tightening torque 3.5N·m (80A ~ 125A);

tightening torque 2.0N·m(20A ~ 63A).



	1P	2P~4P
H(mm)	76.3-0.2	78 -1.2

Note

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Note

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