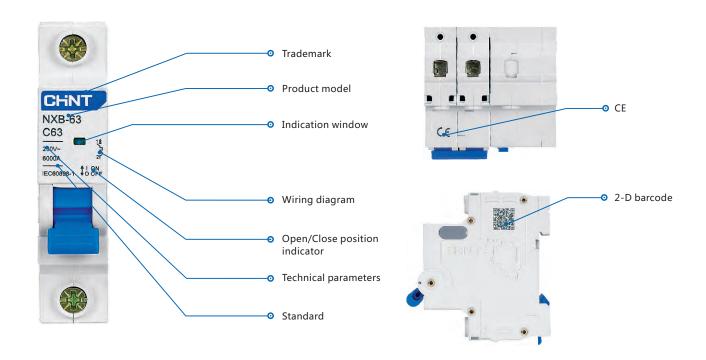
Content

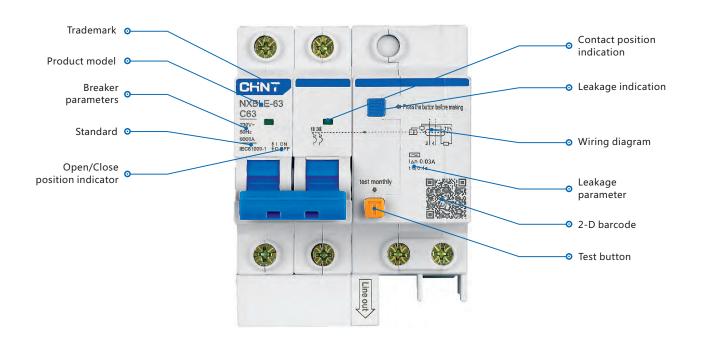
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Identifier description

NXB-63 Miniature circuit breaker



NXBLE-63 Residual current operated circuit breaker



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)



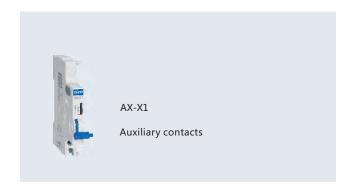
NXBLE-125G

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

Accessories

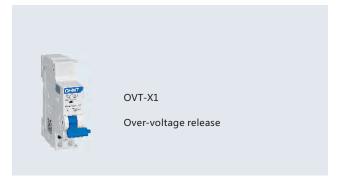
A variety of additional features can be achieved with wide range of accessories when used with circuit breaker, such as alerts, shunt trip, under -voltage protection, etc. Usually the Max number of accessories assembled on the circuit breaker is three. Accessories with independent tripping function should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

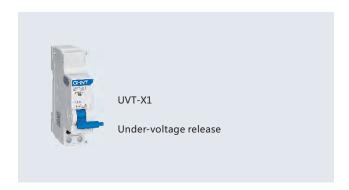
Accessories that can be assembled with NXB-63 series (IEC/EN 60947-5)

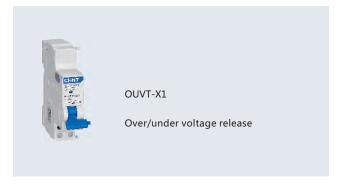






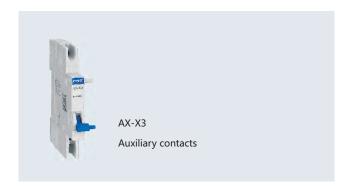






Product overview

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













Isolation switch

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



Parameters

Circuit breaker and switch parameters

Mechanical life (cycles) 20000 20000 20000 Electrical life (cycles) 10000 10000 10000 Rated short-circuit breaking capacity Icu (A) 4500 6000 7500 Rated impulse withstand voltage (1.2 / 50)(kV) 4 4 4 4 Dielectric test voltage (V) (Power frequency 1 minute) 2000 (Power frequency 1 minute) 200 (Power frequency 1 minute) 200 (Power frequency 1 minute) 200	2P, 3P, 3P+N, 4P equency 1 minute) 2000
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, Mechanical life (cycles) 20000 Electrical life (cycles) 20000 20000 20000 20000 Rated short-circuit breaking capacity Lu (A) 4500 6000 10000 Short-circuit breaking capacity Lu (A) 4500 6000 7500 Rated impulse withstand voltage (V) 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 properties (GB/T2423.4:55°C/90-96%,25°C/95-100%) 28 cycles 28 cycles 28 cycles Amaximum cross section (mm²) 1 6 25 25 Terminals Standard connection torque (N m) 1.5 2 2 Maximum withstand torque (N m) 2 2.5 2.5 Maximum withstand torque (N m) 10 12.5 12.5 Reference temperature (°C) 30 30 30 30 Ambient temperature (°C)	equency 1 minute) 2000
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, Mechanical life (cycles) 20000 Electrical life (cycles) 20000 20000 20000 20000 Electrical life (cycles) 10000 10000 10000 10000 Rated short-circuit breaking capacity ku (A) 4500 6000 7500 Rated impulse withstand voltage (1,2 / 50)(kV) 4 4 4 Dielectric test voltage (V) (Power frequency 1 minute) 2000	equency 1 minute) 2000
Number of poles 1P+N 1P, 1P+N, 2P, 3P, 3P+N, 4P 1P, 1P+N, Mechanical life (cycles) 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 (Power frequency 1 minute) 2000 <	equency 1 minute) 2000
Mechanical life (cycles) 20000 20000 20000 Electrical life (cycles) 10000 10000 10000 Rated short-circuit breaking capacity Icu (A) 4500 6000 7500 Rated impulse withstand voltage (1.2 / 50)(kV) 4 4 4 4 Dielectric test voltage (V) (Power frequency 1 minute) 2000 (Power frequency 1 minute) 200 28 cycles 28 c	equency 1 minute) 2000
Mechanical life (cycles) 20000 20000 20000 Electrical life (cycles) 10000 10000 10000 Rated short-circuit breaking capacity Icu (A) 4500 6000 7500 Rated impulse withstand voltage (L2 / 50)(kV) 4 4 4 4 Dielectric test voltage (V) (Power frequency 1 minute) 2000 (Power frequency 1 minute) 200 (Power frequency 1 minute) 200	equency 1 minute) 2000
Rated short-circuit breaking capacity Icu (A) 4500 6000 10000 Short-circuit breaking capacity Icu (A) 4500 6000 7500 Rated impulse withstand voltage (1.2 / 50)(kV) 4 4 4 Dielectric test voltage (V) (Power frequency 1 minute) 2000 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2<	
Rated short-circuit breaking capacity Icu (A) 4500 6000 10000 Short-circuit breaking capacity Icu (A) 4500 6000 7500 Rated impulse withstand voltage (1.2 / 50)(kV) 4 4 4 Dielectric test voltage (V) (Power frequency 1 minute) 2000 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2<	
Short-circuit breaking capacity Icu (A) 4500 6000 7500 Rated impulse withstand voltage (I.2 / 50)(kV) 4 4 4 Dielectric test voltage (V) (Power frequency 1 minute) 2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 </td <td></td>	
Rated impulse withstand voltage (1.2 / 50)(kV) 4 4 4 Dielectric test voltage (V) (Power frequency 1 minute) 2000 28 cycles	
Dielectric test voltage (V) (Power frequency 1 minute) 2000 28 cycles 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2	
Anti-humid and heat properties (GB/T2423.4:55°C/90~96%,25°C/95~100%) Minimum cross section (mm²) 1	
Minimum cross section (mm²) 1 1 25 25 25	
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 setting of thermal element (°C) 30 30 30 Ambient temperature (°C) -35~+70 -35~+70 -35~+70 Ambient storage temperature (°C) -35~+85 -35~+85 -35~+85 Applicable altitude (m) 5000 5000 5000 Type B (3In ~ 5In) ■ ■ ■ Type C (SIn ~ 10In) ■ ■ ■	
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 setting of thermal element (°C) 30 30 30 30 Ambient temperature (°C) -35~+70 -35~+70 -35~+70 -35~+85 -35~+85 -35~+85 Applicable altitude (m) 5000 5000 5000 5000 Type B (3In ~ 5In) 1 1 1 Type C (5In ~ 10In) 1 1 1	
Maximum withstand torque (N m) 2 2.5 2.5 Wire insertion depth (mm) 10 12.5 12.5 Reference temperature for setting of thermal element (°C) 30 30 30 Ambient temperature (°C) -35~+70 -35~+70 -35~+70 -35~+85 Applicable altitude (m) 5000 5000 5000 Type B (3In ~ 5In) Type C (5In ~ 10In) Flectromagnetic Type B (3In ~ 5In)	
Wire insertion depth (mm) 10 12.5 12.5 Reference temperature for setting of thermal element (°C) 30 30 30 Ambient temperature (°C) -35~+70 -35~+70 -35~+70 Ambient storage temperature (°C) -35~+85 -35~+85 -35~+85 Applicable altitude (m) 5000 5000 5000 Type B (3In ~ 5In) ■ ■ Type C (5In ~ 10In) ■ ■	
Reference temperature for setting of thermal element (°C) 30 30 30 Ambient temperature (°C) -35~+70 -35~+70 -35~+70 Ambient storage temperature (°C) -35~+85 -35~+85 -35~+85 Applicable altitude (m) 5000 5000 5000 Type B (3In ~ 5In) Image: Color of the col	
Ambient temperature (°C) -35~+70 -35~+70 -35~+70 Ambient storage temperature (°C) -35~+85 -35~+85 -35~+85 Applicable altitude (m) 5000 5000 5000 Type B (3In ~ 5In) ■ ■ ■ Type C (5In ~ 10In) ■ ■ ■	
Ambient storage temperature (°C) -35~+85 -35~+85 -35~+85 Applicable altitude (m) 5000 5000 5000 Type B (3In ~ 5In) ■ ■ Type C (5In ~ 10In) ■ ■	
Applicable altitude (m) 5000 5000 5000 Type B (3In ~ 5In) ■ ■ ■ Type C (5In ~ 10In) ■ ■ ■	
Type B (3In ~ 5In) Type C (5In ~ 10In) Flectromagnetic	
Type C (5In ~ 10In)	
Flectromagnetic	
Type D (10In ~ 14In)	
trip type	
Type C (6.4In ~ 9.6In)	
Type D (9.6In~14.4In)	
50 ~ 60Hz IIn IIn IIn	
tripping current 100Hz 1.1In 1.1In 1.1In 1.1In	
correction factor under different power 200Hz 1.2In 1.2In 1.2In	
frequency (recommended value) 400Hz 1.5In 1.5In 1.5In 1.5In	
DC 1.5In 1.5In 1.5In	
≤3 (0.9~0.95)In (0.9~0.95)In (0.9~0.95)In (0.9~0.95)In	In
Derating factor with multiple products 4 ~ 6 (0.86~0.80)In (0.86~0.80)In (0.86~0.80)In	0)In
side by side (recommended value) 7 ~ 9 (0.78~0.76)In (0.78~0.76)In (0.78~0.76)	5)In
>9 0.76In 0.76In 0.76In	
Temperature compensation 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	07)In
coefficient (recommended 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 +(0.04~0.07)In	07)In
≤2000m In In In	
Rated current correction factor 3000m 0.96In 0.96In 0.96In 0.96In	
for high altitude use	
(recommended value) 4000m 0.94in 0.94in 0.92in 0.92in 0.92in 0.92in	
≤2000m Ue Ue Ue Ue	
Rated voltage correction factor 3000m 0.89Ue 0.89Ue 0.89Ue 0.89Ue	
for high altitude use	
(recommended value)	
	ttom entry
	•
	rail mounting
Pollution degree II Pollut	uegree II
Protection degree IP20 IP20 IP20 IP20	
Mounted in the distribution box IP40 IP40 IP40 IP40	
Ax-x1, AL-x1, SHT-x1, OVT-x1, UVT-x1, OUVT-x1, UVT-x1, OVT-x1, UVT-x1, UVT-x1, OVT-x1, UVT-x1,	L-X1, SHT-X1, UVT-X1, OUVT-X1

NXB-80	NXB-125	NXB-125G	NXHB-125
IEC60898-1	IEC60947-2	IEC60898-1	IEC60947-3
80	63~125	63~125	63~125
240	240/415	240/415	240/415
50/60	50/60	50/60	50/60
1P, 1P+N, 2P	1P, 2P, 3P, 4P	1P, 2P, 3P, 4P	1P, 2P, 3P, 4P
20000	20000	20000	10000
10000	6000(In≤100A), 4000(In>100A)	6000(In≤100A), 4000(In>100A)	3000
6000	10000	10000	20Ie
6000	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
12.5	15	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
•			
•		•	
•		•	
1In	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	
(0.9~0.95)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	
In	In	In	
0.96In	0.96In	0.96In	
0.94In	0.94In	0.94In	
0.92In	0.92In	0.92In	
Ue	Ue	Ue	
0.89Ue	0.89Ue	0.89Ue	
0.78Ue	0.78Ue	0.78Ue	
0.68Ue	0.68Ue	0.68Ue	
Top or bottom entry			
TH35-7.5-rail mounting	TH35-7.5-rail mounting	TH35-7.5-rail mounting	TH35-7.5-rail mounting
Pollution degree II	Pollution degree III	Pollution degree III	Pollution degree II
	IDOO	IP20	IP20
IP20	IP20		
IP20 IP40	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	tage (1.2 / 50)(kV)	4	4
Dielectric test voltage (V)		(Power frequency 1 minute) 2000	(Power frequency 1 minute) 2000
	es (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	
	Wire insertion depth (mm)		2.5
Reference temperature for s	etting of thermal element (°C)	10	12.5
Ambient working temperatu	•	30	30
Ambient storage temperatur		-35~+70	-35~+70
Applicable altitude (m)	e (c)	-35~+85	-35~+85
Applicable altitude (III)	Type B (3In ~ 5In)	5000	5000
		_	_
Electromagnetic	Type C (3In ~ 5In)		•
trip type	Type D (3In ~ 5In)	-	-
	Type C (6.4In ~ 9.6In)		
	Type D (9.6In~14.4In)		
Electromagnetic	50 ~ 60Hz	1In	1In
tripping current correction factor under	100Hz	1.1In	1.1In
different power frequency	200Hz	1.2In	1.2In
(recommended value)	400Hz	1.5In	1.5In
	DC	1.5In	1.5In
Derating factor with	≤3	(0.9~0.95) In	(0.9~0.95) In
multiple products side by side	4 ~ 6	(0.86~0.80)In	(0.86~0.80)In
(recommended value)	7 ~ 9	(0.78~0.76)In	(0.78~0.76)In
	>9	0.76In	0.76In
Temperature compensation coefficient (recommended	Change for every 10°C increase from the reference temp	-(0.03~0.050)In	-(0.03~0.050)In
value)	Change for every 10°C decrease from the reference temp	-(0.04~0.07)In	-(0.04~0.07)In
Rated	≤2000m	In	In
current correction factor	3000m	0.96In	0.96In
for high altitude use (recommended value)	4000m	0.94In	0.94In
	5000m	0.92In	0.92In
Rated	≤2000m	Ue	Ue
voltage correction factor	3000m	0.89Ue	0.89Ue
for high altitude use (recommended value)	4000m	0.78Ue	0.78Ue
•	5000m	0.68Ue	0.68Ue
Cable entry		Top-in, Bottom-out	Top-in, Bottom-out
Mounting		TH35-7.5-rail mounting	TH35-7.5-rail mounting
Pollution degree		Pollution degree II	Pollution degree II
	Direct mounting	IP20	IP20
Protection class	Mounted in the distribution box	IP40	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
	•		•
•	•		•
•	•		
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
(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
(0.78~0.76)In	(0.78~0.76)In	(0.78~0.76)In	(0.78~0.76)In
0.76In	0.76In	0.76In	0.76In
-(0.03~0.050)In	-(0.03~0.050)In	-(0.03~0.050)In	-(0.03~0.050)In
-(0.04~0.07)In	-(0.04~0.07)In	-(0.04~0.07)In	-(0.04~0.07)In
In a set.	In a get	In a get in	In
0.96In	0.96In	0.96In	0.96In
0.94In	0.94In	0.94In	0.94In
0.92In	0.92In	0.92In	0.92In
Ue	Ue	Ue	Ue
0.89Ue	0.89Ue	0.89Ue	0.89Ue
0.78Ue	0.78Ue	0.78Ue	0.78Ue
0.68Ue	0.68Ue	0.68Ue	0.68Ue
Top-in, Bottom-out	Top-in, Bottom-out	Top-in, Bottom-out	Top-in, Bottom-out
TH35-7.5-rail mounting	TH35-7.5-rail mounting	TH35-7.5-rail mounting	TH35-7.5-rail mounting
Pollution degree II	Pollution degree II	Pollution degree III	Pollution degree III
IP20	IP20	IP20	IP20
IP40	IP40	IP40	IP40
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-X3, AL-X3	AX-X3, AL-X3

Tripping characteristics

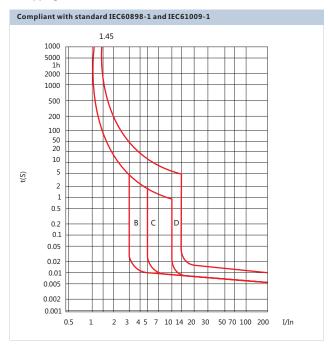
● Tripping characteristics are in compliant with standard IEC60898-1 and IEC61009-1

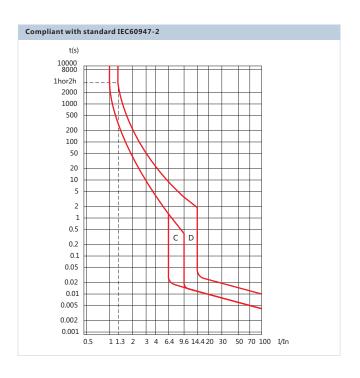
Test	Туре	Test current	Starting state	Trip/Not trip time limit	Expected outcome	Notes
a	B,C,D	1.13In	Cold	$t \le 1 \text{ h(for In} \le 63\text{A)}$ t < 2 h(for In > 63A)	Not trip	
b	B,C,D	1.45In	Right after test	t<1 h(for In≤63A) t<2 h(for In>63A)	Trip	Current increase steadily within 5s
С	B,C,D	2.55In	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	Cold	t≤0.2s		
D	9.6In	Cold	150.25	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 Smm²	Rated current In(A)
1	In≤8
1.5	8 < In≤12
2.5	12 < In≤20
4	20 < In≤25
6	25 < In ≤ 32
10	32 < In≤50
16	50 < 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,	2.6.5	6A, 10A, 16A, 20A, 25A, 32A	0.03A, 0.05A, 0.075A,
NXBLE-63	3P+N, 4P	B, C, 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, 1157	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

Product description

Miniature circuit breaker	
NXB-63 Miniature circuit breaker	P-15
NXB-63H Miniature circuit breaker	P-16
NXB-80 Miniature circuit breaker	P-17
NXB-40 Miniature circuit breaker	P-18
NXB-125 Moulded case circuit breaker	P-19
NXB-125G Miniature circuit breaker	P-20
Residual current operated circuit breaker	(RCBO)
NXBLE-32 Residual current operated circuit breaker (RCBO)	P-2
NXBLE-63 Residual current operated circuit breaker (RCBO)	P-2
NXBLE-63Y Residual current operated circuit breaker (RCBO)	P-2
NXBLE-40 Residual current operated circuit breaker (RCBO)	P-2
NXBLE-125 Residual current operated circuit breaker (RCBO)	P-2
NXBLE-125G Residual current operated circuit breaker (RCBO)	P-2
Accessories	
AX-X1 Auxiliary contact	P-2
AL-X1 Alarm auxiliary contact	P-2
SHT-X1 Shunt release	P-2
OVT-X1 Overvoltage release	P-3
UVT-X1 Under-voltage release	P-3
	P-3
OUVT-X1 Over/under voltage release	
OUVT-X1 Over/under voltage release AX-X3 Auxiliary contact	
-	P-3
AX-X3 Auxiliary contact	P-3
AX-X3 Auxiliary contact AL-X3 Alarm auxiliary contact	P-3 P-3 P-3
AX-X3 Auxiliary contact AL-X3 Alarm auxiliary contact SHT-X3 Shunt release	P-3- P-3- P-3- P-4-
AX-X3 Auxiliary contact AL-X3 Alarm auxiliary contact SHT-X3 Shunt release OVT-X3 Overvoltage release	P-3· P-3· P-3· P-4· P-4
AX-X3 Auxiliary contact AL-X3 Alarm auxiliary contact SHT-X3 Shunt release OVT-X3 Overvoltage release UVT-X3 Under-voltage release	P-34 P-36 P-46 P-46

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;

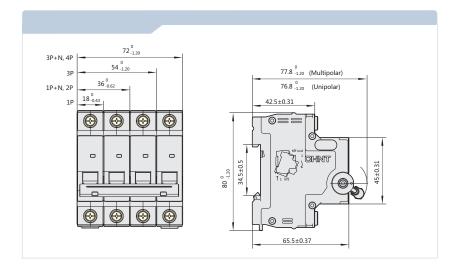
Mechanical life: 20000 cycles; Electrical life: 10000 cycles;

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;

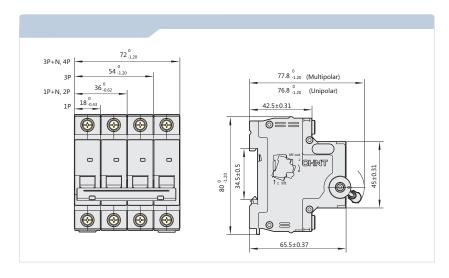
Rated short-circuit breaking capacity: 10000A; Short-circuit breaking capacity: 7500A;

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;

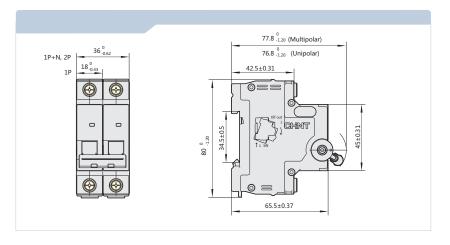
Electromagnetic release type: B, C, D; Number of poles: 1P, 1P+N, 2P; Mechanical life: 20000 cycles; Electrical life: 10000 cycles;

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	Number of poles	Rated voltage	Rated short-circuit breaking capacity	Short-circuit 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;

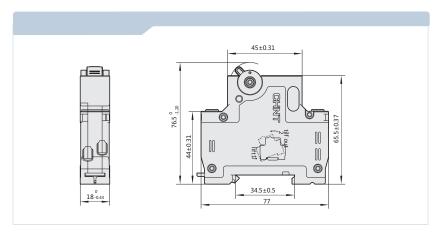
Number of poles: 1P+N; Mechanical life: 20000 cycles; Electrical life: 10000 cycles;

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);

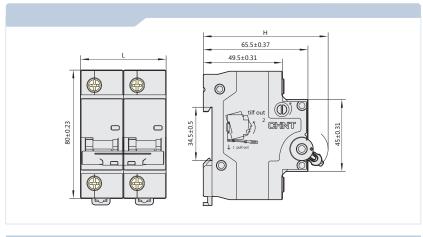
Rated short-circuit breaking capacity(Icu): 10000A;

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);

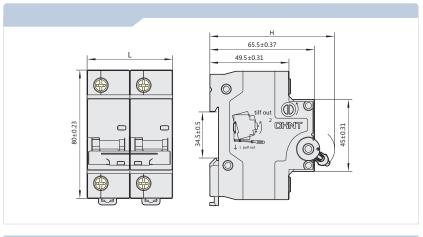
Rated short-circuit breaking capacity(Icu): 10000A;

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);

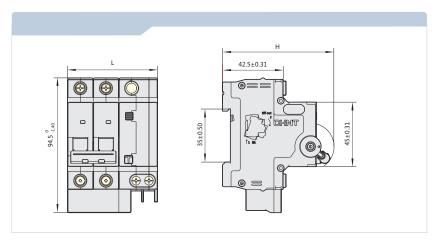
Frequency: 50/60Hz;

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	2P	3P	3P+N	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

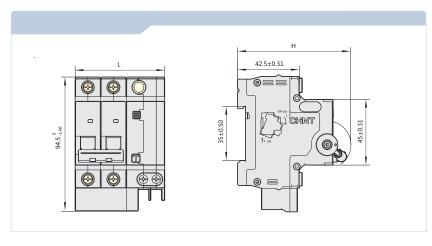
Rated current: 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A; Rated residual operating current: 0.03A, 0.05A, 0.075A, 0.1A, 0.3A; Rated voltage: 240V ~ (1P+N, 2P), 415V ~ (3P, 3P+N, 4P);

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

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;

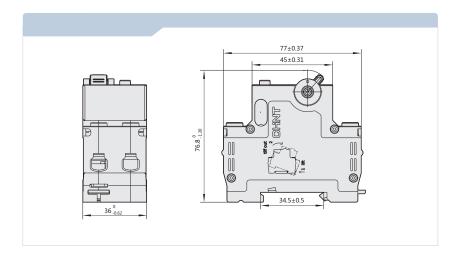
Rated residual operating current: 0.01A, 0.03A;

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

CE

Major function

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

Technical parameters

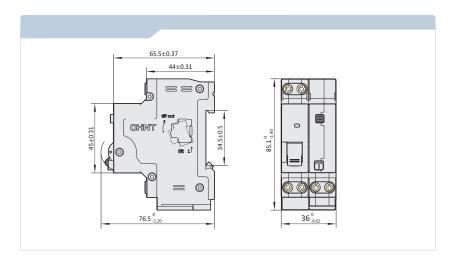
Rated current: 6A, 10A, 16A, 20A, 25A, 32A, 40A; Rated residual operating current: 0.01A, 0.03A;

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;

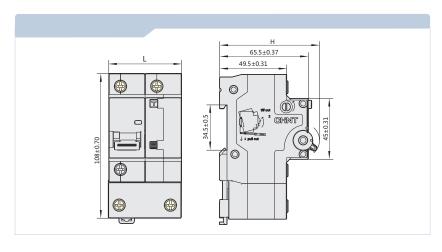
Electromagnetic release type: C, D; Number of poles: 1P+N, 2P, 3P, 3P+N, 4P;

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 -120	

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);

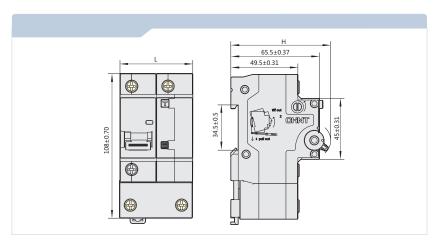
Frequency: 50/60Hz;

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 contact



AX-X1 Auxiliary contact

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
	DC 48	2
	DC 24	6

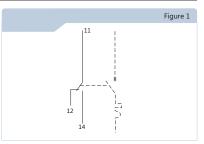
Action characteristics: Figure 1 shows the wiring diagram for auxiliary contacts.

When the auxiliary contacts is open, terminals

11 and 12 are connected;

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

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

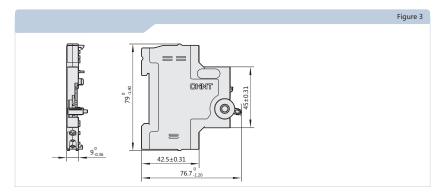


Assembly and installation of the product

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

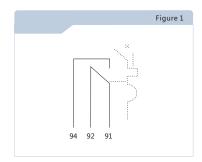
CF

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.

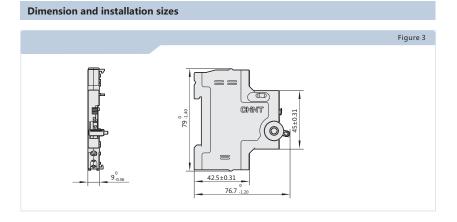


Assembly and installation of the product

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

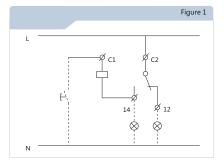
To be assembled with the circuit breaker to achieve remote shunt trip.

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.

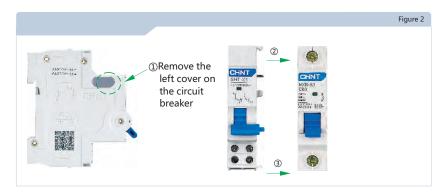
Action characteristics: within the range of 70% ~ 110% of the rated control supply voltage, the release should operate reliably to open the circuit breaker. Figure 1 shows the wiring diagram for the release. When the release is open, terminal C2 and 12 shall be connected, and the external security indicator 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.

	lubic 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.

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.

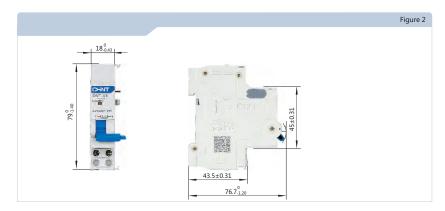
Release action characteristics: when the main circuit voltage is in the range of (85% \sim 110%) Ue, the release shall be able to keep the circuit breaker to work reliably for long term. When the main circuit voltage is increased to 280 (1 \pm 5%) V, the release assembled with NXB-63 series circuit breaker 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

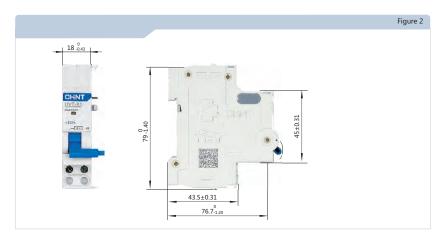
Action characteristics: when the applied voltage \leq 35% Ue, the product should prevent circuit breaker from closing; when 35% Ue \leq applied voltage \leq 70% Ue, the product should operate and drive the circuit breaker open; when the applied voltage \geq 85% Ue, the product should be able to close. 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;

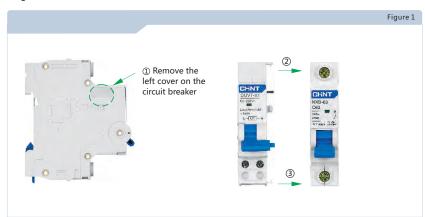
Rated insulation voltage Ui: 500V;

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.

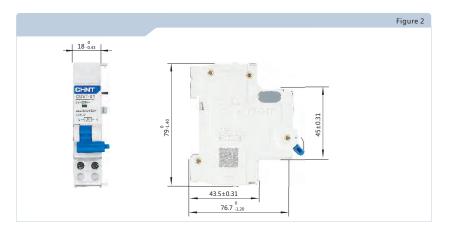
Mechanical and electrical life: the mechanical and electrical life after the release is assembled with the circuit breaker should be \geq 4000 cycles, of which, 500 cycles for over-voltage trip and under-voltage trip each, and 3000 cycles for the open/close of the circuit breaker.

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

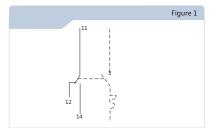
Rated operating currents under different working voltages:

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
	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.



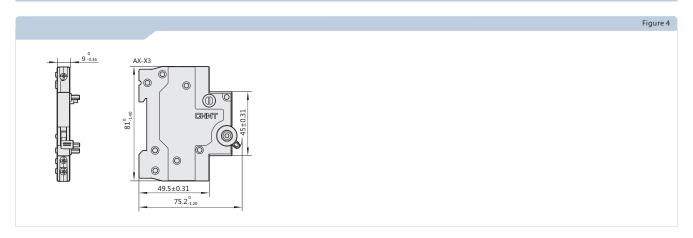
Assembly and installation of the product

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

CF

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

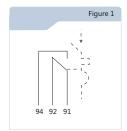
Rated operation currents under different working voltages:

Table 1

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

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

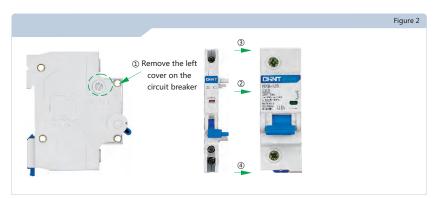
When the auxiliary contact is open, terminals 91 and 94 is connected; When the auxiliary contact is closed, terminals 91 and 92 is connected. When the alarm auxiliary contact is closed, and manually open with the handle, terminals 91 and 92 shall still be connected; when the alarm auxiliary contact is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

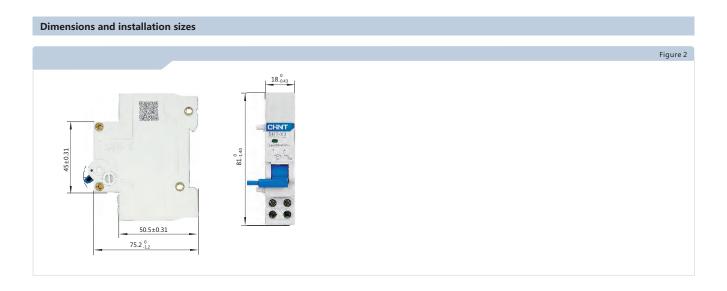
Assembly and installation of the product

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.

AL-X3 Alarm auxiliary contact





SHT-X3 Shunt release

Major function

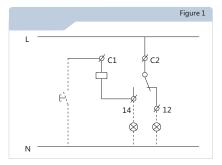
To be assembled with the circuit breaker to achieve remote shunt trip.

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.

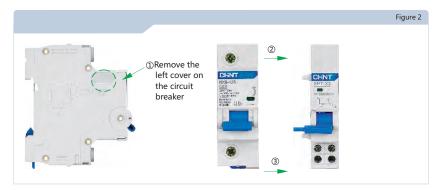
Action characteristics: within the range of 70% ~ 110% of the rated control supply voltage, the release should operate reliably to open the circuit breaker. Figure 1 shows the wiring diagram for the release. When the release is open, terminal C2 and 12 shall be connected, and the external security indicator 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.

	lable 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-X3 Shunt release

Figure 3

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.

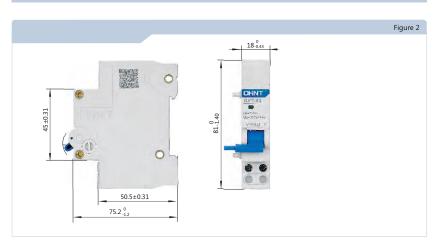
Release action characteristics: when the main circuit voltage is in the range of (85% \sim 110%) Ue, the release shall be able to keep the circuit breaker to work reliably for long term. When the main circuit voltage is increased to 280 (1 \pm 5%) V, the release assembled with NXB-125series circuit breaker 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.

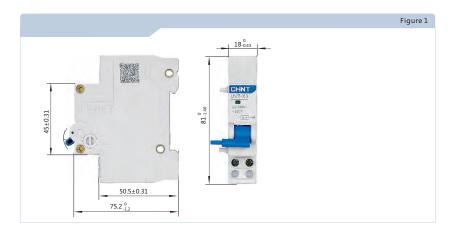
Action characteristics: when the applied voltage \leq 35% Ue, the product should prevent circuit breaker from closing; when 35% Ue \leq applied voltage \leq 70% Ue, the product should operate and drive the circuit breaker open; when the applied voltage \leq 85% Ue, the product should be able to close. 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;

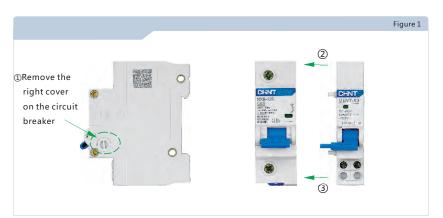
Rated insulation voltage Ui: 500V;

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.



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;

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Rated operation voltage Ue: 240V \sim (1P), 415V \sim (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;

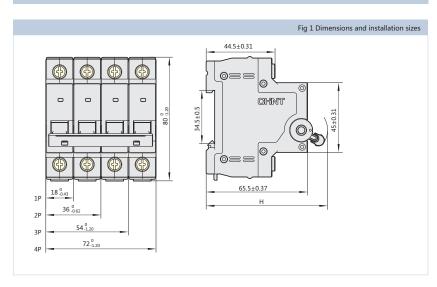
Installation category: II, III;

Installation: TH35-7.5 steel rail mounting, the gradient of the mounting surface from the

vertical plane should be ≤5°;

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

tightening torque 2.0N·m(20A ~ 63A).



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