



NB1 Miniature Circuit Breaker



NB1

● General

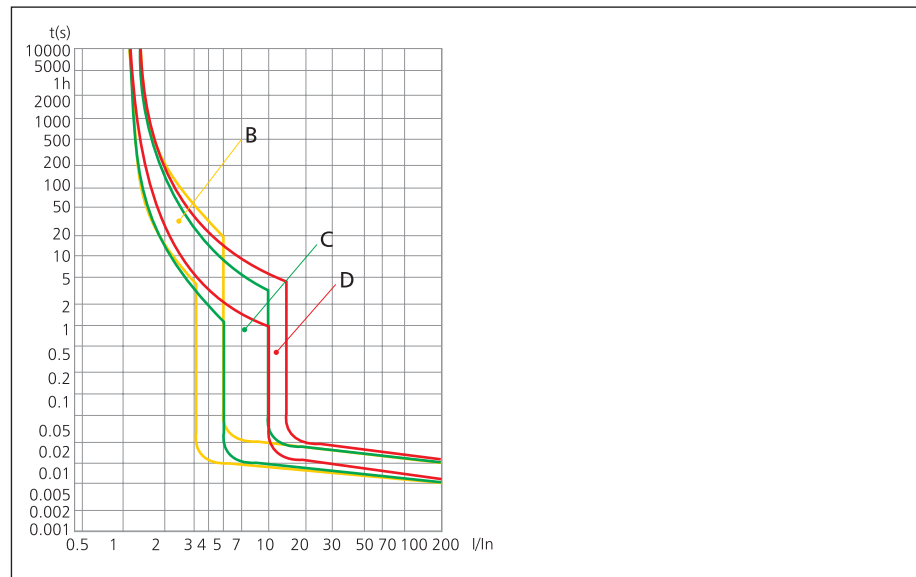
- Short circuit protection
- Overload protection
- Switch
- Isolation
- Contact position indicator
- Advanced current-limit technology
- Heat dissipation gap for better cooling
- Extendable DIN-rail holder for easy installation

● Technical features

Standard		IEC/EN 60898-1	IEC/EN 60947-2	UL1077	UL1077
Rated current In	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63		1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63	
Poles		1P, 1P+N, 2P, 3P, 3P+N, 4P	1P, 2P, 3P, 4P	1P, 2P, 3P, 4P	1P, 2P
Rated voltage Ue	V	230/400~240/415		277/480	110/125
Rated frequency	Hz	AC 50/60			DC
Rated breaking capacity	A	6000/10000	6k	5k	10k
Energy limiting class		3			
Rated impulse withstand voltage(1.2/50) Uimp	V	4000			
Thermo-magnetic release characteristic		B, C, D	8-12In, 9.6-14.4In	B, C, D	4-7In, 7-14In
Electrical life		4, 000			
Mechanical life		20, 000			
Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device			
Connection		From top and bottom			
Auxiliary contact		Yes			
Shunt release		Yes			
Under voltage release		Yes			
Alarm contact		Yes			

● Curve

B, C, D curve





NB7

NB7 Miniature Circuit Breaker

● General

- Main specifications
- Graded according to the rated current I_n ;
- Classified as follows according to the type of instantaneous release: type B (3-5) I_n , type C (5-10) I_n , type D ((10-16) I_n ;

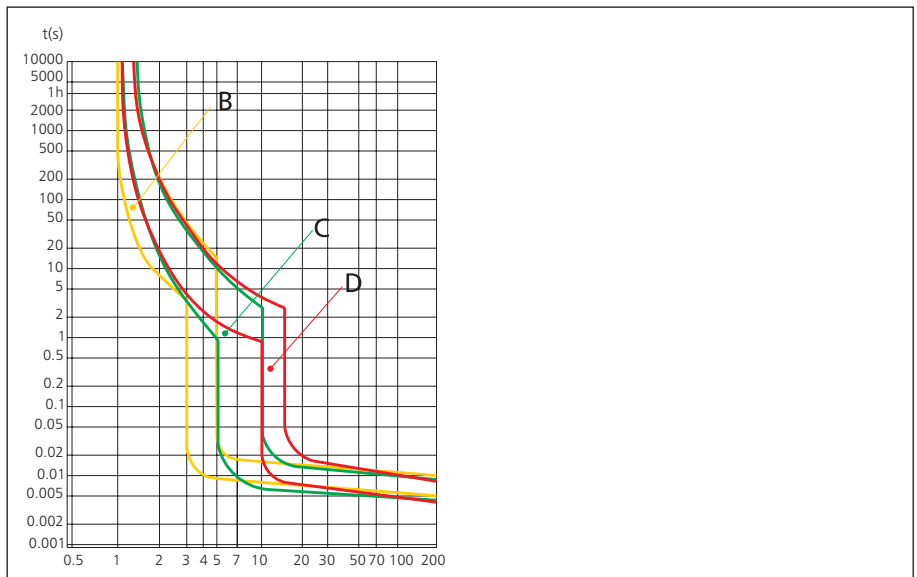
● Technical data

Standard		IEC/EN 60898-1
Rated current I_n	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63
Poles		1P, 2P, 3P, 4P
Rated voltage U_e	V	230/400
Rated frequency	Hz	50
Electrical life		4, 000
Mechanical life		10, 000

Rated current I_n (A)	Number of poles	Rated voltage U_e (V)	Rated short circuit capacity I_{cn} (A)
B、C type: 1~40	1	230/400	6000
	2, 3, 4	400	
B、C type: 50 60	1	230/400	4500
	2, 3, 4	400	
D type: 1~63	1	230/400	4500
	2, 3, 4	400	

● Curve

B, C, D curve



CE N S PG RCC SAA

eBC eB eBG Miniature Circuit Breaker



eBC

● **General**

- Short circuit protection
- Overload protection
- Switch
- Isolation
- Economic type breaker
- High cost-effective

● **Technical features**

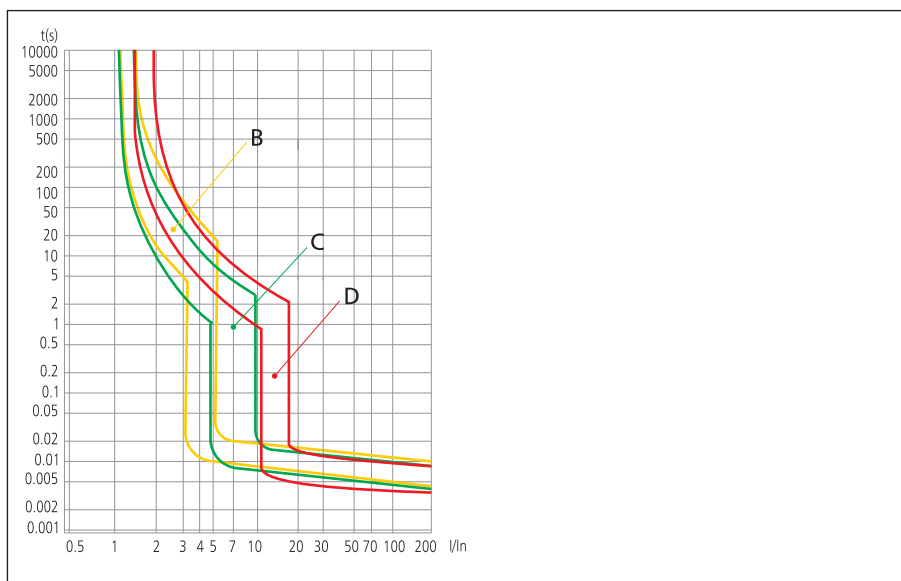
Standard		IEC/EN 60898-1	IEC/EN 60947-2
Rated current I_n	A	1, 2, 3, 4, 6, 10, 15, 16, 20, 25, 32, 40, 50, 63	
Poles		1P, 2P, 3P, 4P	
Rated voltage U_e	V	230/400~240/415	
Rated frequency	Hz	50/60	
Rated breaking capacity	kA	3 (1~63A) eBC 4.5 (1~63A) eB 6 (1~40A) eBG	
Rated impulse withstand voltage(1.2/50) U_{imp}	V	4000	
Thermo-magnetic release characteristic		B, C, D	8-12 I_n
Electrical life		4, 000	
Mechanical life		10, 000	
Terminal connection type		Cable/Pin-type busbar	
Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device	
Connection		From top and bottom	



eB

● **Curve**

B, C, D curve



eBG



UB Miniature Circuit Breaker



UB

● General

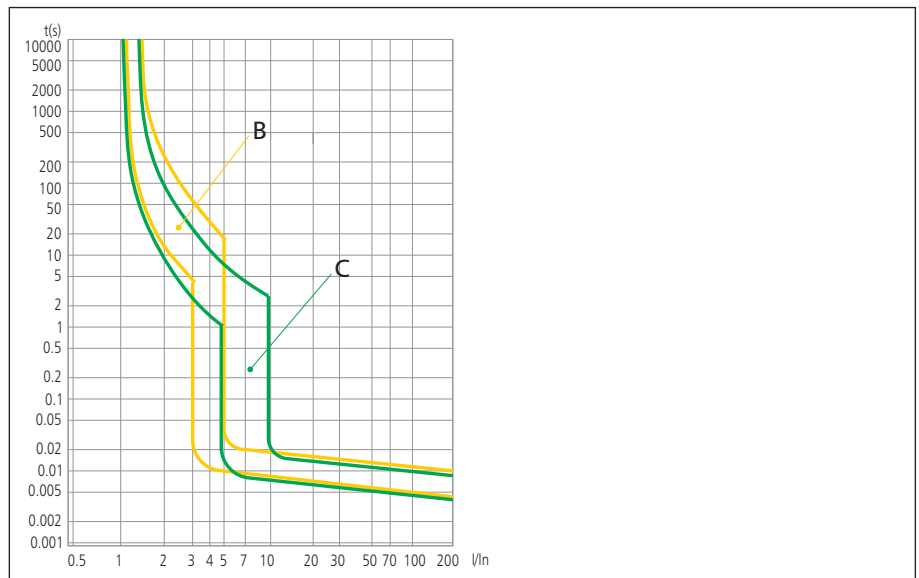
- Short circuit protection
- Overload protection
- Switch
- Isolation
- Various wiring solutions: U-type/pin-type/Comb-type Busbar/Cable

● Technical features

Standard		IEC/EN 60898-1
Rated current In	A	6, 10, 13, 16, 20, 25, 32, 40
Poles		1P, 2P, 3P, 4P
Rated voltage Ue	V	230/400~240/415
Rated frequency	Hz	50/60
Rated breaking capacity	A	6000
Rated impulse withstand voltage(1.2/50) Uimp	V	4000
Thermo-magnetic release characteristic		B, C
Electrical life		4,000
Mechanical life		10,000
Mounting		On DIN rail EN 60715 (35mm) by means of fast dip device
Connection		From top and bottom

● Curve

B, C curve





DZ158 Moulded Case Circuit Breaker



DZ158

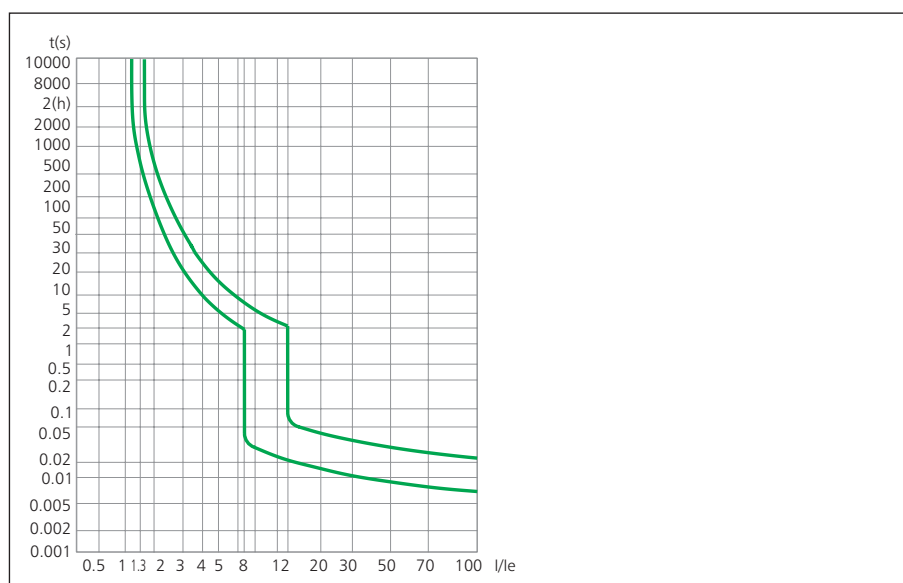
● General

- Short circuit protection
- Overload protection
- Switch
- Isolation
- Contact position indicator

● Technical features

Standard		IEC/EN 60947-2
Rated current I_n	A	63, 80, 100, 125
Poles		1P, 2P, 3P, 4P
Rated voltage U_e	V	230/400~240/415
Rated frequency	Hz	50
Rated breaking capacity	kA	6/10
Rated impulse withstand voltage(1.2/50) U_{imp}	V	4000
Thermo-magnetic release characteristic		8-12 I_n
Electrical life		1,500 ($I_n=63A, 80A, 100A$)
		1,000 ($I_n=125A$)
Mechanical life		8,500 ($I_n=63A, 80A, 100A$)
		7,000 ($I_n=125A$)
Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device
Connection		From top

● Curve





NBH8 Miniature Circuit Breaker



NBH8

● **General**

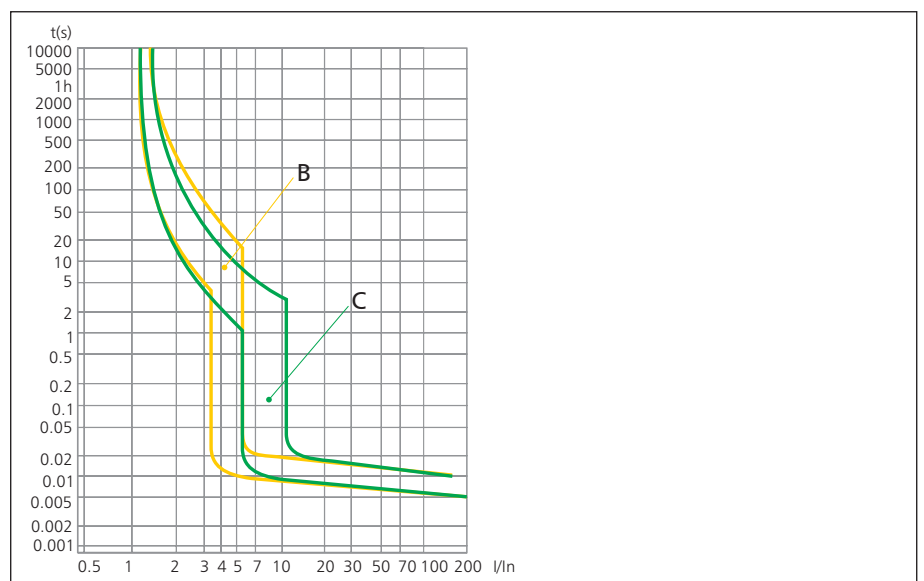
- Short circuit protection
- Overload protection
- Switch
- Isolation
- 1P+N in one module.
- Contact position indicator

● **Technical features**

Standard	IEC/EN 60898-1	
Rated current In	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40
Poles		1P+N
Rated voltage Ue	V	230~240
Thermo-magnetic release characteristic		B, C
Rated frequency	Hz	50/60
Rated breaking capacity	A	4500/6000
Rated impulse withstand voltage(1.2/50) Uimp	V	4000
Electrical life		8, 000
Mechanical life		20, 000
Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device
Terminal connection type		Cable/Pin-type busbar
Auxiliary contact		Yes
Shunt release		Yes
Under voltage release		Yes
Alarm contact		Yes

● **Curve**

B, C curve





NL1 Residual Current Operated Circuit Breaker without Over-current Protection (Magnetic)



NL1

● General

- protect people against indirect contacts and additional protection against direct contacts.
- protect installations against fire hazard due to insulation faults.

● Detectable wave form

- AC Class
Tripping is ensured for slowly increasing sinusoidal AC residual currents.
- A Class
Tripping is ensured for sinusoidal AC residual currents and for pulsed DC residual currents, whether applied suddenly or increasing slowly.

● Tripping sensitivity

- 30mA - additional protection against direct contact.
- 100mA - co-ordinated with the earth system according to the formula $I_{\Delta n} < 50/R$, to provide protection against indirect contacts;
- 300mA - protection against indirect contacts, as well as fire hazard.

● Tripping time

- Instantaneous
It ensures instantaneous tripping (without time-delay).
- Short time delay S
It ensures any tripping at least 10ms.
- Selective S
It ensures total discrimination with a nonselective RCCB placed downstream.

● Fault current indicator

● Technical features

Standard		IEC/EN 61008-1
Type (wave form of the earth leakage sensed)		AC, A, AC-G, A-G, AC-S, A-S
Rated current I_n	A	25, 40, 63, 80, 100
Poles		2P, 4P
Rated voltage U_e	V	230/400–240/415
Rated sensitivity $I_{\Delta n}$	A	0.03, 0.1, 0.3
Short-circuit current $I_{cn}=I_{\Delta c}$	A	6000/10000
Electrical life		2, 000
Mechanical life		2, 000
Terminal connection type		Cable/U-type busbar/Pin-type busbar
Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device
Connection		From top and bottom



NB1L Residual Current Operated Circuit Breaker with Over-current Protection (Magnetic)



NB1L

● General

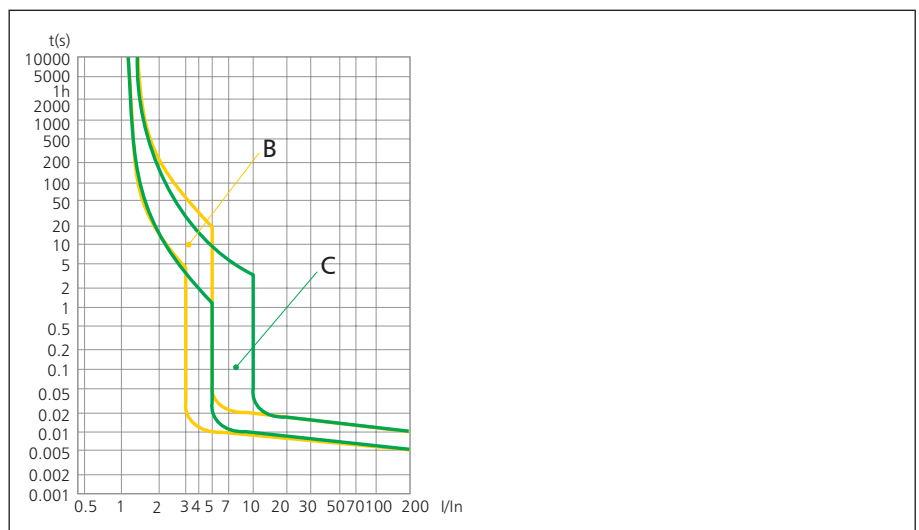
- Protection against risk of fire
- Protection against risk of electric shock
- Protection against overload
- Protection against short circuit
- Contact position indicator

● Technical features

Standard	IEC/EN 61009-1	
Type (wave form of the earth leakage sensed)	AC, A	
Thermo-magnetic release characteristic	B, C	
Rated current I_n	MCB+add-on RCCB block	1, 2, 3, 4, 6, 8, 10, 13, 16, 20, 25, 32, 40, 50, 63
	Combined	1~25/6~40
Poles	MCB+add-on RCCB block	1P+N, 2P
	Combined	1P+N, 2P, 3P, 3P+N, 4P
Rated voltage U_e	V	230/400~240/415
Rated sensitivity $I_{\Delta n}$	A	0.03, 0.1, 0.3
Rated short-circuit capacity I_{cn}	A	6,000/10,000
Break time under $I_{\Delta n}$	s	≤ 0.1
Electrical life	2,000	
Mechanical life	2,000	
Mounting	On DIN rail EN 60715 (35mm) by means of fast clip device	
Connection	From top and bottom (for combined type)	
	From top (MCB+add-on RCCB block)	

● Curve

B, C curve



NB7LE Residual Current Operated Circuit Breaker



NB7LE

● General

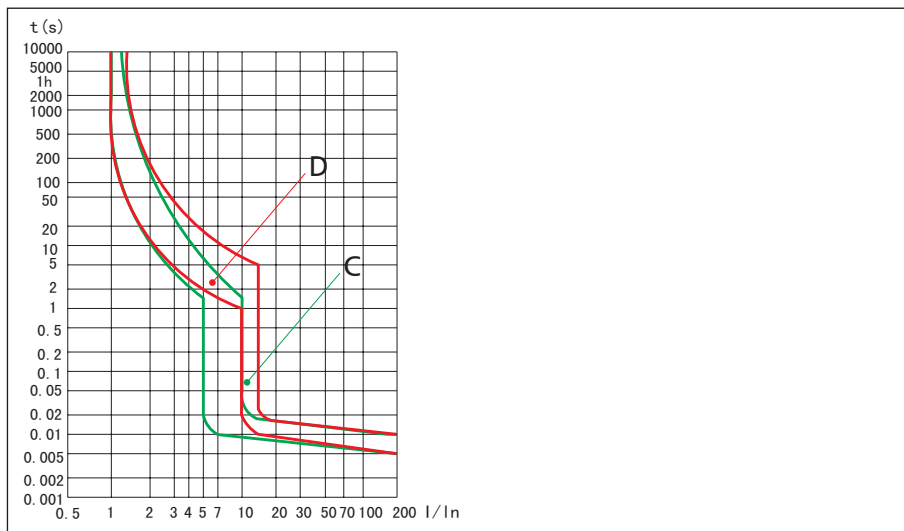
- Protection against risk of fire
- Protection against risk of electric shock
- Protection against overload
- Protection against short circuit
- Contact position indicator

● Technical features

Standard	IEC/EN 61009-1	
Rated current I _n	A	NB7LE-32 6, 10, 16, 20, 25, 32; NB7LE-63 6, 10, 16, 20, 25, 32, 40, 50, 63
Poles		1P+N, 2P, 3P, 3P+N, 4P 1P+N, 2P
Rated voltage U _e	V	230(1P+N, 2P), 440(3P, 3P+N, 4P)
Rated frequency	Hz	50
Rated breaking capacity	A	4500
Electrical life		4,000
Mechanical life		20,000

● Curve

C, D curve



CE SAA

NB3LE Residual Current Operated Circuit Breaker with Over-current Protection (Electronic)



NB3LE

● **General**

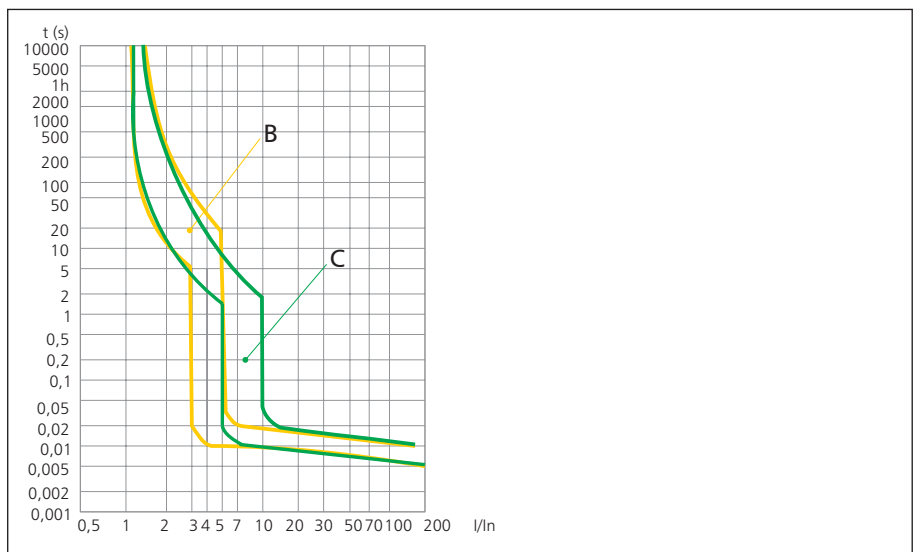
- Protection against risk of fire
- Protection against risk of electric shock
- Protection against overload
- Protection against short circuit
- 1P+N in one module
- Contact position indicator

● **Technical features**

Standard		IEC/EN 61009-1
Type (wave form of the earth leakage sensed)		AC
Thermo-magnetic release characteristic		B, C
Rated current I _n	A	6, 10, 16, 20, 25, 32
Poles		1P+N
Rated voltage U _e	V	240
Rated sensitivity I _{Δn}	A	0.03
Short-circuit current I _{cn}	A	6,000
Break time under I _{Δn}	s	≤0.1
Electrical life		2, 000
Mechanical life		2, 000
Terminal connection type		Cable/U-type busbar/Pin-type busbar
Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device
Connection		From top

● **Curve**

B, C curve





NB3LEU Residual Current Operated Circuit Breaker with Over-current Protection (Electronic)



NB3LEU

● **General**

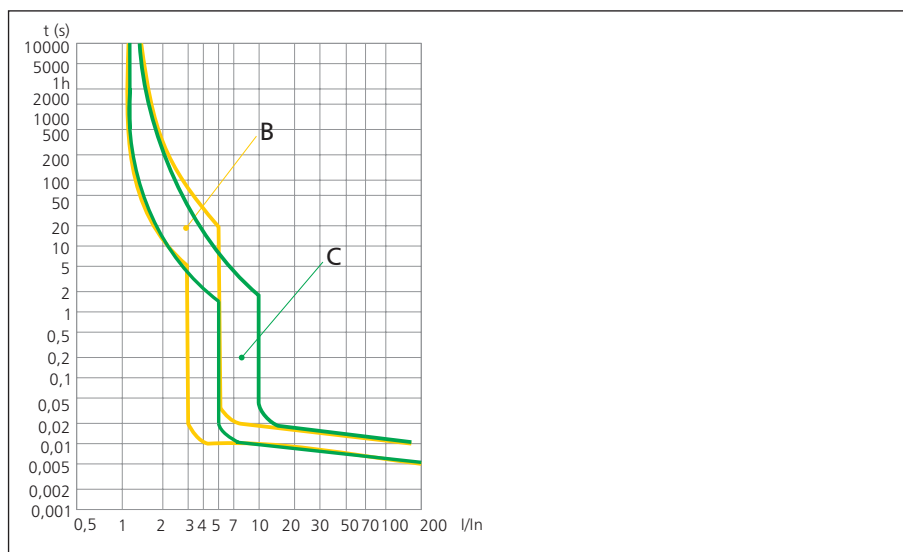
- Protection against risk of fire
- Protection against risk of electric shock
- Protection against overload
- Protection against short circuit
- 1P+N in one module
- Contact position indicator

● **Technical features**

Standard		IEC/EN 61009-1
Type (wave form of the earth leakage sensed)		AC
Thermo-magnetic release characteristic		B, C
Rated current I _n	A	6, 10, 13, 16, 20, 25, 32, 40
Poles		1P+N
Rated voltage U _e	V	240
Rated sensitivity I _{Δn}	A	0.03
Short-circuit current I _{cn}	A	10,000
Break time under I _{Δn}	s	≤0.1
Electrical life		2,000
Mechanical life		2,000
Terminal connection type		Cable/U-type busbar/Pin-type busbar
Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device
Connection		From top

● **Curve**

B, C curve





NBH8LE Residual Current Operated Circuit Breaker with Over-current Protection (Electronic)



NBH8LE

● General

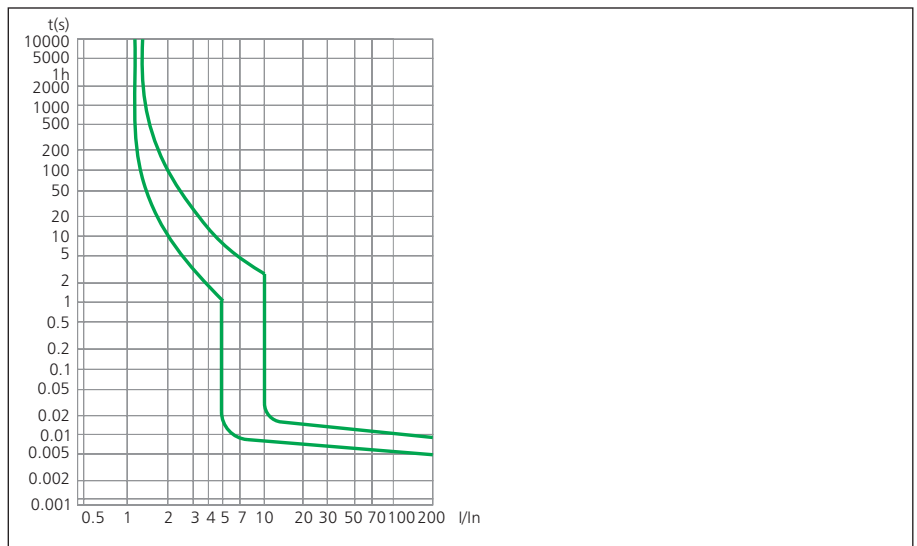
- Protection against risk of fire
- Protection against risk of electric shock
- Protection against overload
- Protection against short circuit

● Technical features

Standard	IEC/EN 61009-1	
Type (wave form of the earth leakage sensed)	AC	
Thermo-magnetic release characteristic	C	
Rated current I_n	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40
Poles	1P+N	
Rated voltage U_e	V	230
Rated sensitivity $I_{\Delta n}$	A	0.03
Short-circuit current I_{cn}	A	4,500
Electrical life	4,000	
Mechanical life	20,000	
Mounting	On DIN rail EN 60715 (35mm) by means of fast clip device	
Connection	From top	

● Curve

C curve





DZ158LE Residual Current Operated Circuit Breaker



DZ158LE

● **General**

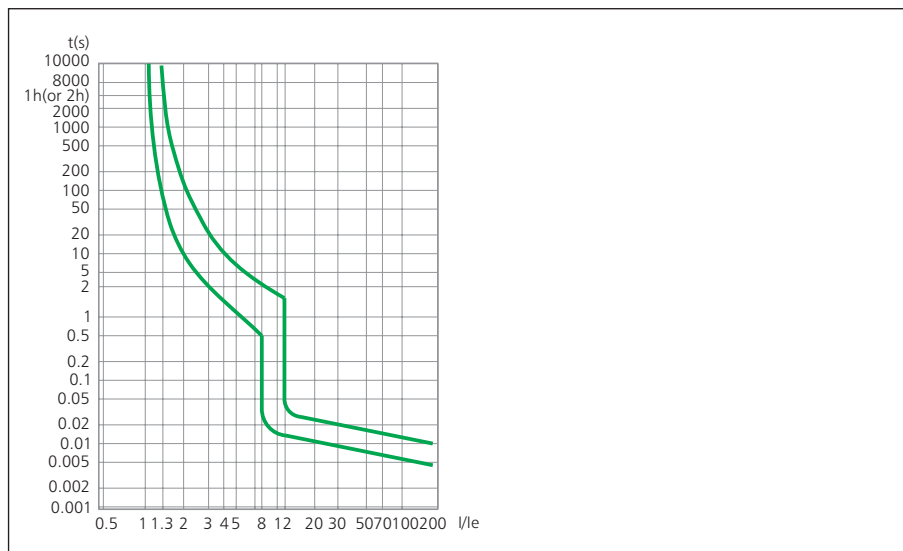
- Protection against risk of fire
- Protection against risk of electric shock
- Protection against overload
- Protection against short circuit

● **Technical features**

Standard	IEC/EN 60947-2	
Type (wave form of the earth leakage sensed)	AC	
Thermo-magnetic release characteristic	8~12In	
Rated current In	A	63, 80, 100
Poles	1P+N, 2P, 3P, 3P+N, 4P	
Rated voltage Ue	V	230/400
Rated sensitivity I Δ n	A	0.03, 0.1, 0.3
Short-circuit current Icn	A	6,000
Electrical life	1, 500	
Mechanical life	8,500	
Mounting	On DIN rail EN 60715 (35mm) by means of fast clip device	
Connection	From top	

● **Curve**

C curve





XF9

XF9 (Auxiliary Contact for NB1, NBH8, NB1L, NB3LE, NBH8LE)

● General

- General: Indication of the position of the device's contacts.
- Manufactured according to IEC/EN 60947-5-1
- Rated voltage: DC 24V, 48V, 130V
AC 240V, 415V
- Configurations: 1N/O+1N/C
- Mounted on the left of the MCBs/RCBOs.



XF9J

XF9J (Alarm Auxiliary Contact for NB1, NBH8, NB1L, NB3LE, NBH8LE)

● General

- General: Indication of the position of the device's contacts only after the automatic release of the MCBs/RCBOs due to overload or short circuit.
- Manufactured according to IEC/EN 60947-5-1
- Rated voltage: DC 24V, 48V, 130V
AC 240V, 415V
- Configurations: 1N/O+1N/C
- Mounted on the left of the MCBs/RCBOs.



S9

S9 (Shunt Release for NB1, NBH8, NB1L, NB3LE, NBH8LE)

● General

- General: Remote opening of the device when a voltage is applied.
- Manufactured according to IEC/EN 60947-5-1
- Rated voltage: DC 24V, 48V
AC 230V, 400V
- Mounted on the left of the MCBs/RCBOs.



V9

V9 (Under Voltage Release for NB1, NBH8, NB1L, NB3LE, NBH8LE)

● General

- General: Reliable break the device in the case of a voltage drop (between 35% and 70% of its rated value)
- Manufactured according to IEC/EN 60947-5-1
- Rated voltage: AC 230V
- Mounted on the left of the MCBs/RCBOs .



AX-1

AX-1 (Auxiliary Contact for DZ158, DZ158LE)

● General

- General: Indication of the position of the device's contacts.
- Manufactured according to IEC/EN 60947-5-1
- Rated voltage: DC 125V
AC 415V
- Configurations: 1N/O+1N/C
- Mounted on the left of the MCBs/RCBOs.



NH2 Switch Disconnecter



NH2

● **General**

- Isolation
- Designed match DZ series MCBs/RCBOs

● **Technical features**

- Manufactured according to IEC/EN 60947-3
- Electric ratings: 32A, 63A, 100A, 230/400V~240/415V, 50/60Hz
- Rated short circuit breaking capacity: 20Ie, t=0.1s
- Electric life: 1500
- Mechanical life: 8500
- Connection: From top and bottom



NH4 Switch Disconnecter



NH4

● **General**

- Isolation
- Designed match N series MCBs/RCBOs

● **Technical features**

- Manufactured according to IEC/EN 60947-3
- Electric ratings: 32A, 63A, 100A, 125A, 230/400V~240/415V, 50/60Hz
- Rated short circuit breaking capacity: 20Ie, t=0.1s
- Electric life: 1500
- Mechanical life: 8500
- Connection: From top and bottom

NU6 Low-voltage Surge Arrester



NU6- I

● General

- Protect electric system and on-loading electrical apparatus from thunder.
- Protect electric system and on-loading electrical apparatus from instantaneous over-voltage.

● Technical features

- NU6- I :
- Manufactured according to IEC/EN 61643-1
- Electric ratings: 230/400V, AC50/60Hz, 3-phases
- Shock current limp peak (10/350 μ s)(kA): 15kA, 25kA, 40kA
- Max. continuous operational voltage U_c (V): 275V, 320V, 385V, 440V



NU6- II

● NU6- II :

- Manufactured according to IEC/EN 61643-1
- Composed by two independent components
- With remote control port
- Electric ratings: 230/400V, AC50/60Hz, 3-phases
- Nominal discharge current (kA): 5kA, 15kA, 25kA, 40kA.
- Max. continuous operational voltage U_c (V): 275V, 320V, 385V, 460V, 510V, 550V



NU6-III

● NU6-III:

- Manufactured according to IEC/EN 61643-1
- Composed by two independent components
- With remote control port
- Electric ratings: 230V, AC50/60Hz, 3-phases
- U_{oc} (1.2/50 μ s)(kV): 2kV, 3kV, 4kV, 6kV, 10kV, 20kV
- Max. continuous operational voltage U_c (V): 275V, 320V, 385V

NP9 Pushbutton



NP9

● **General**

- For controlling electrical circuit either directly or via starters, contactors, relays etc. And pushbutton with lamp could also be used as indicator.

● **Technical features**

- Manufactured according to IEC/EN 60947-5-1
- Type: Pushbutton without illuminated lamp
 Electric ratings: 6A, 230V, AC50/60Hz
 Electric life: 100,000
 Mechanical life: 250,000
- Type: Pushbutton with illuminated lamp
 Electric ratings: 20mA, AC/DC 6.3/12/24/110/230V
- Assembly of contact: 1N/C+2N/O, 2N/C+1N/O, 3N/O, 2N/C+2N/O
 (Not available for illuminated type)
- Mounting on Din rail (TH35-7.5)



ND9

ND9 Indicator Light

● **General**

- Indication of signal, pre-set signal, malfunction signal etc.

● **Technical features**

- Manufactured according to IEC/EN 60947-5-1
- Two types: single lamp & dual lamps
- Electric ratings: 20mA, AC/DC 6.3/12/24/110/230V
- Mounting on Din rail (TH35-7.5)



NX8

NX8 Consumer Unit (Body)

● **General**

- For installing the modular DIN-rail products together to control the electric system

● **Technical features**

- Manufactured according to IEC/EN 60439-3 (IEC/EN 60670-24)
- Electric ratings: up to 100A, 230V, AC50/60Hz
- On-load current(A): 100/1-phase, 63/3-phase
- No. of mounted units: 5, 8, 12, 15, 20, 24
- Flush mounting



NX2

NX2 Consumer Unit (Body)

● **General**

- For installing the modular DIN-rail products together to control the electric system

● **Technical features**

- Manufactured according to IEC/EN 60439-3 (IEC/EN 60670-24)
- Electric ratings: up to 100A, 230V, AC50/60Hz
- On-load current(A): 100/1-phase, 63/3-phase
- No. of mounted units: 8, 10, 14, 18, 28, 36
- Surface mounting



NXW1

NXW1 Consumer Unit (Body) for Outdoor Application

● **General**

- For installing the modular DIN-rail products together to control the electric system

● **Technical features**

- Manufactured according to IEC/EN 60439-3 (IEC/EN 60670-24)
- Electric ratings: up to 63A, 230V, AC50/60Hz
- No. of mounted units: 3, 5
- High protection degree up to IP65
- Surface mounting



NXW5

NXW5 Wall Mounting Enclosure

● **General**

- For installing the modular DIN-rail products together to control the electric system

● **Technical features**

- Manufactured according to IEC/EN 60439-1
- Designed for three phases circuit system
- Electric ratings: 220...240/380...415V, AC50/60Hz
Max. incoming current (A): 630A
- Protection degree: IP54/IP65
- Surface mounting for outdoor installation.



MCB Shield

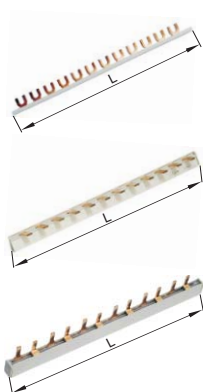
MCB Shield (For eB, NH2)

● **General**

- Guarantee MCBs' wiring safety.

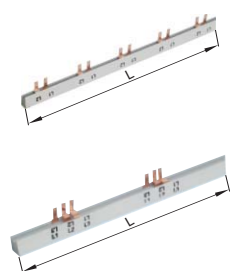
● **Technical features**

- Electrical ratings: up to 100A, 220...240/380...415V, AC 50/60Hz
- Poles of mounted units: 1P, 3P



Busbar for MCB & RCCB

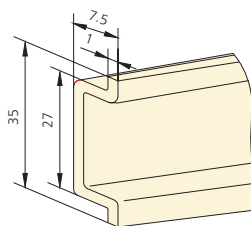
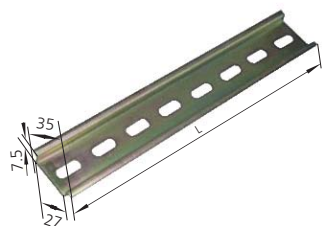
Model	Number of poles	Cross section (mm ²)	Length L (m)
Fork Type	1P, 2P, 3P, 4P	12	1
Pin Type	1P, 2P, 3P, 4P	12	1
Pin Type	1P, 2P, 3P, 4P	16	1



Busbar for RCBO

Model	Number of poles	Cross section (mm ²)	Length L (m)
Fork Type	2P	10	1
Pin Type	3P	10	1

DIN Rail



Model	L(m)
DIN Rail	1



NZK1



NZK1-32 Change-over Switch

● General

- Electric ratings: AC 50/60Hz;
- Rated voltage up to 250V, rated current 32A;
- Standard: IEC/EN 60669-1

● Technical features

- Poles: 1P, 2P
- Rated frequency: 50Hz/60Hz;
- Rated operating current I_e : 32A;
- Rated voltage U_e : 250V;
- Rated making and breaking capacity:
1.1 U_e ; 1.25 I_e ; $\text{COS}\Phi=0.3\pm 0.05$; 200 times
- Operational performance:
 $U_{e0}^{+5\%}I_e$; $\text{COS}\Phi=0.6\pm 0.05$; 10000 times



NZK2



NZK2-32 Change-over Switch

● General

- Electric ratings: AC 50/60Hz;
- Rated voltage up to 250V, rated current 32A;
- Standard: IEC/EN 60669-1

● Technical features

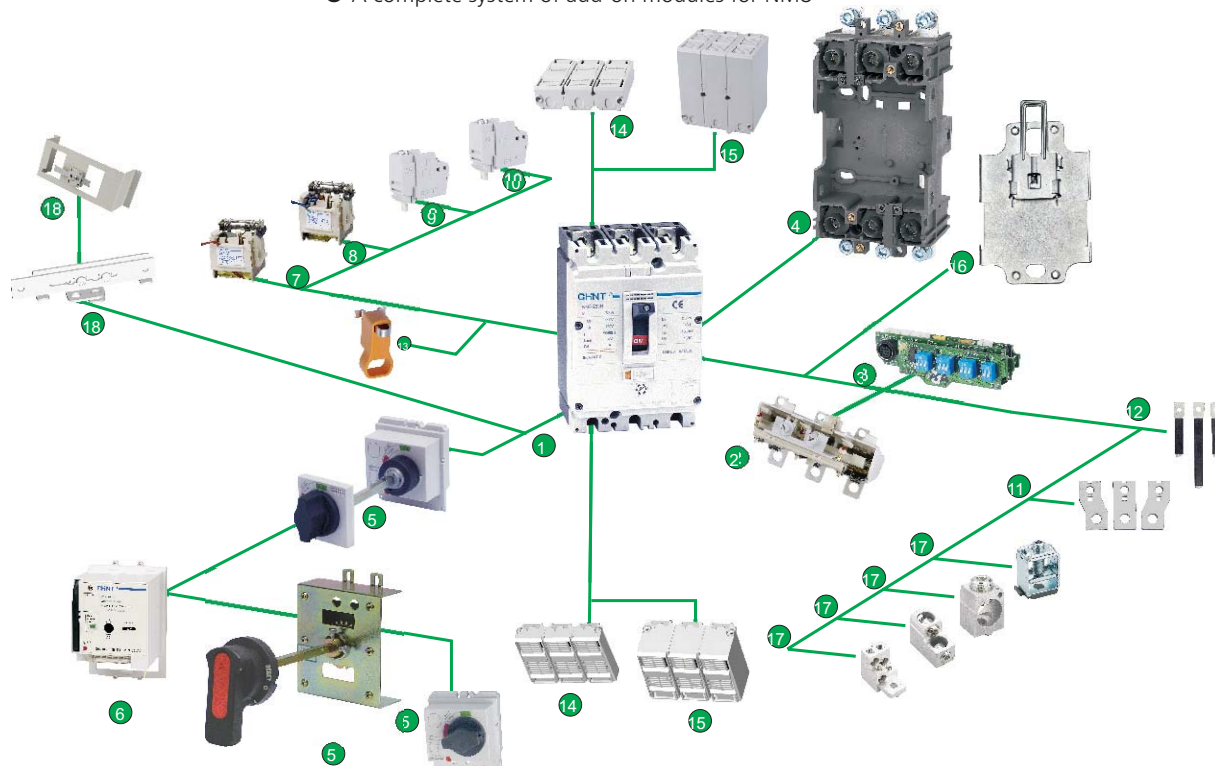
- Poles: 1P, 2P
- Rated frequency: 50Hz/60Hz;
- Rated operating current I_e : 32A;
- Rated voltage U_e : 250V;
- Rated making and breaking capacity:
1.1 U_e ; 1.25 I_e ; $\text{COS}\Phi=0.3\pm 0.05$; 200 times
- Operational performance:
 $U_{e0}^{+5\%}I_e$; $\text{COS}\Phi=0.6\pm 0.05$; 10000 times



NM8

NM8, NM8S Adjustable type MCCB

- Rated current from 16 to 1250A
- Thermal-magnetic type / Electronic type / Magnetic-only type
- Adjustable thermal & adjustable magnetic trip
- 2P 3P 4P available
- 3-class breaking capacity from 50kA to 150kA
- $I_{cs} = 100\%I_{cu} (I_n \leq 630A)$, $I_{cs} = 50\%I_{cu} (I_n > 630A)$
- Circuit breakers and auxiliaries comply with the following international standard:
 - IEC/EN 60947-1: general rules
 - IEC/EN 60947-2: circuit breakers
 - IEC/EN 60947-3: switches, disconnectors, switch-disconnectors, etc.
 - IEC/EN 60947-4: contactor and motor starters
 - IEC/EN 60947-5.1 and following: control circuit devices and switching elements, automatic control components. NM8 also comply with the specifications of the marine classification companies.
- Certified for operation in pollution-degree III environments as defined by IEC standard 60947 (industrial environments).
- Wide temperature range from -40°C to $+70^{\circ}\text{C}$
- A complete system of add-on modules for NM8



- | | | | |
|----------------------------------|------------------------------------|----------------------------|-------------------------|
| 1 Body | 6 Motor driven operating mechanism | 11 Front connection plate | 16 DIN rail adaptor |
| 2 Thermo magnetic release | 7 Under-voltage release | 12 Rear connection plate | 17 Cage clamp terminal |
| 3 Electronic release | 8 Shunt release | 13 Locking system(padlock) | 18 Mechanical interlock |
| 4 Plug-in base | 9 Alarm contact | 14 Short terminal cover | |
| 5 Rotary manual operating handle | 10 Auxiliary contact | 15 Extended terminal cover | |



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