#### Specifications | Combined RCD/MCB Devices NmRB., 2-pole

#### Description

- Combined RCD/MCB Devices
- Line voltage-independent tripping
- Compatible with standard busbar
- Twin-purpose terminal (lift/open-mouthed) above and below
- Busbar positioning optionally above or below
- Free terminal space despite installed busbar
- Guide for secure terminal connection
- Switching toggle (MCB component) in colour designating the rated current
- Contact position indicator red green
- Fault current tripping indicator white blue
  Comprehensive range of accessories can be mounted subsequently
- The test key "T" must be pressed every 6 months. The system operator must be informed of this obligation and his responsibility in a way that can be proven (self-adhesive RCD-label enclosed). The test interval of 6 months is valid for residential and similar applications. Under all other conditions (e.g. damply or dusty environments), it's recommended to test in shorter intervals (e.g. monthly).
- Pressing the test key "T" serves the only purpose of function testing the residual current device (RCD). This test does not make earthing resistance measurement (R<sub>E</sub>), or proper checking of the earth conductor condition redundant, which must be performed separately.

- **Type -A**: Protects against special forms of residual pulsating DC which have not been smoothed
- Type -G: 10 ms time delay to avoid unwanted tripping (e.g. during thunderstorms).
- Type -F: Sensitive to pulsating DC residual current and detection of multi-frequency residual currents up to 1 kHz
   -Increased protection due to the detection of mixed frequencies
   -Higher load rating with DC residual currents up to 10mA
   -Reduction of nuisance tripping thanks to time delayed tripping and increased current withstand capability of 3kA
   Recommended for washing machines, dish washers, or motor applications with single-phase drives.
- **-OL Types:** Specifically designed to fulfil (Br. E) the tripping characteristic requirements of I2  $\leq$  Iz in the Norwegian electrotechnical standard NEK 400-8-823.

Accessories:		
Tripping signal switch for subsequent installation	ZP-IHK	286052
Shunt trip release	ZP-ASA/	248438, 248439

## **Protective Devices**

Combined RCD/MCB Devices NmRB., 2-pole

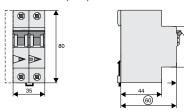
#### **Technical Data**

EC/EN 61009, IEC/EN 62423 Fype G acc. to ÖVE E 8601 250 A (8/20 $\mu$ s), conditionally surge current proof (type A) surge current proof 3kA (8/20 $\mu$ s) (type F,- G/A) 230 V AC; 50 Hz 196-253 V 30, 100 mA 0.5 I $_{\Delta n}$ AC and pulsating DC, Type F frequency mixtures up to 1 kHz 3 10 kA 6 kA 6 - 40 A
Fype G acc. to ÖVE E 8601           250 A (8/20 µs), conditionally surge current proof (type A)           surge current proof 3kA (8/20µs) (type F,- G/A)           230 V AC; 50 Hz           196-253 V           30, 100 mA           0.5 I <sub>An</sub> AC and pulsating DC, Type F frequency mixtures up to 1 kHz           3           10 kA           6 kA           6 - 40 A
250 A (8/20 μs), conditionally surge current proof (type A)         surge current proof 3kA (8/20μs) (type F,- G/A)         230 V AC; 50 Hz         196-253 V         30, 100 mA         0.5 I <sub>Δn</sub> AC and pulsating DC, Type F frequency mixtures up to 1 kHz         3         10 kA         5 kA         6 40 A
surge current proof 3kA (8/20µs) (type F,- G/A) 230 V AC; 50 Hz 196-253 V 30, 100 mA 0.5 I <sub>Δn</sub> AC and pulsating DC, Type F frequency mixtures up to 1 kHz 3 10 kA 5 kA 5 - 40 A
230 V AC; 50 Hz 196-253 V 30, 100 mA 0.5 I <sub>Δn</sub> AC and pulsating DC, Type F frequency mixtures up to 1 kHz 3 10 kA 5 kA 5 - 40 A
196-253 V 30, 100 mA 30.5 I <sub>Δn</sub> AC and pulsating DC, Type F frequency mixtures up to 1 kHz 3 10 kA 5 kA 5 - 40 A
20, 100 mA D.5 I <sub>Δn</sub> AC and pulsating DC, Type F frequency mixtures up to 1 kHz 3 10 kA 5 kA 5 - 40 A
AC and pulsating DC, Type F frequency mixtures up to 1 kHz AC and pulsating DC, Type F frequency mixtures up to 1 kHz B IO kA 6 kA 6 - 40 A
AC and pulsating DC, Type F frequency mixtures up to 1 kHz 3 10 kA 5 kA 5 - 40 A
3 10 kA 5 kA 5 - 40 A
- 10 kA 5 kA 5 - 40 A
5 kA 5 - 40 A
5 kA 5 - 40 A
5 - 40 A
4 kV (1.2/50 μs)
3, C, B(-OL), C(-OL)
100 A gL (>10 kA)
≥ 4,000 switching operations
≥ 20,000 switching operations
15 mm
30 mm
35 mm (2MU)
3-position DIN rail clip, permits removal from existing busbar system
P20
P40
open mouthed/lift terminals
inger and hand touch safe, DGUV VS3, EN 50274
1 - 25 mm <sup>2</sup>
2 - 2.4 Nm
0.8 - 2 mm
25°C to +40°C
35°C to +60°C

#### **Connection diagram**



#### Dimensions (mm)



#### Combined RCD/MCB Devices NmRB., 2-pole

#### NmRBM: Influence of ambient temperature on load carrying capacity

- Values = max. allowed current in Ampere at the specific temperature
- Temperature factor (%/K) = 0.5

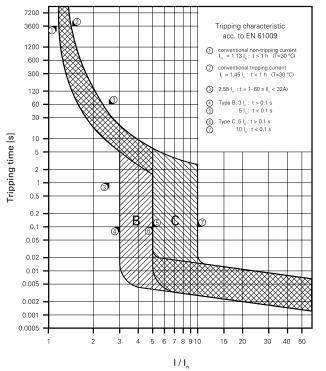
	Ambient	temperature /	°C							
I <sub>n</sub> [A]	-40	-30	-25	-20	-10	0	10	20	30	40
6	8.1	7.8	7.7	7.5	7.2	6.9	6.6	6.3	6.0	5.7
10	13.5	13.0	12.8	12.5	12.0	11.5	11.0	10.5	10.0	9.5
13	17.6	16.9	16.6	16.3	15.6	15.0	14.3	13.7	13.0	12.4
15-0L	20.0	19.3	18.9	18.6	17.9	17.1	16.4	15.7	15.0	14.3
16	21.6	20.8	20.4	20.0	19.2	18.4	17.6	16.8	16.0	15.2
20	27.0	26.0	25.5	25.0	24.0	23.0	22.0	21.0	20.0	19.0
20-0L	26.7	25.7	25.2	24.8	23.8	22.5	21.9	21.0	20.0	19.0

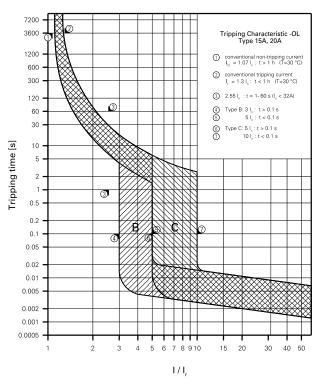
#### NmRB6: Influence of ambient temperature on load carrying capacity

- Values = max. allowed current in Ampere at the specific temperature
- Temperature factor (%/K) = 0.5

	Ambient	temperature /	°C							
I <sub>n</sub> [A]	-40	-30	-25	-20	-10	0	10	20	30	40
25	33.8	32.5	31.9	31.3	30.0	28.8	27.5	26.3	25.0	23.8
32	43.2	41.6	40.8	40.0	38.4	36.8	35.2	33.6	32.0	30.4
40	54.0	52.0	51.0	50.0	48.0	46.0	44.0	42.0	40.0	38.0

#### Tripping Characteristic NmRB., Characteristics B and C





Combined RCD/MCB Devices NmRBM, 2-pole

#### Short Circuit Selectivity NmRBM towards Neozed<sup>1)</sup> / Diazed<sup>2)</sup> / NH00<sup>3)</sup>

Short circuit currents in kA, rated currents of fuses in A

NmRBM	Neoz	ed 1)								
I <sub>n</sub> [A]	16	20	25	32	35	40	50	63	80	100
B10/B10-OL	<0.5	0.5	0.9	2	2.3	3.7	8	10	10	10
B13/B13-OL	<0.5	0.5	0.8	1.7	1.9	3	6	10	10	10
B16/B15-OL		0.5	0.7	1.5	1.7	2.4	4.4	6.8	10	10
B20/B20-OL			0.7	1.4	1.5	2.2	3.9	6	9.2	10
C10/C10-OL	<0.5	0.5	0.8	1.7	1.9	3	6.1	10	10	10
C13/C13-OL	<0.5	0.5	0.7	1.6	1.8	2.8	5.5	9.5	10	10
C16/C15-OL		<0.5	0.7	1.3	1.5	2.2	4	6.2	10	10
C20/C20-OL			0.6	1.3	1.4	2.1	3.7	5.6	8.5	10

Short circuit	selectivity	NmRBM	towards	Diazed 2)

NmRBM	Diazo	ed <sup>2)</sup>							
I <sub>n</sub> [A]	16	20	25	32	35	50	63	80	100
B10/B10-OL	<0.5	0.5	0.9	1.8	2.9	5.6	10	10	10
B13/B13-OL	<0.5	0.5	0.8	1.5	2.4	4.5	10	10	10
B16/B15-OL		0.5	0.8	1.3	2	3.4	8	10	10
B20/B20-OL			0.7	1.3	1.9	3.1	7.1	10	10
C10/C10-OL	<0.5	0.5	0.8	1.5	2.4	4.4	10	10	10
C13/C13-OL	<0.5	0.5	0.8	1.4	2.3	4.2	10	10	10
C16/C15-OL		<0.5	0.7	1.2	1.9	3.2	7.6	10	10
C20/C20-OL			0.7	1.2	1.8	2.9	6.5	9.7	10

Short circuit selectivity NmRBM towards NHOO 3)

NmRBM	NHO	<b>(</b> 3)										
I <sub>n</sub> [A]	16	20	25	32	35	40	50	63	80	100	125	160
B10/B10-OL	<0.5	<0.5	0.8	1.5	2.3	3.2	5.7	9.1	10	10	10	10
B13/B13-OL	<0.5	<0.5	0.8	1.3	1.9	2.7	4.4	6.5	10	10	10	10
B16/B15-OL		<0.5	0.7	1.1	1.6	2.2	3.4	4.8	8	10	10	10
B20/B20-OL			0.6	1	1.4	2	3.1	4.3	7	10	10	10
C10/C10-OL	<0.5	<0.5	0.7	1.3	1.9	2.7	4.5	6.9	10	10	10	10
C13/C13-OL	<0.5	<0.5	0.7	1.2	1.8	2.5	4.1	6.1	10	10	10	10
C16/C15-OL		<0.5	0.6	1	1.5	2	3.1	4.4	7.5	10	10	10
C20/C20-OL			0.6	0.9	1.4	1.9	2.9	4.1	6.5	10	10	10

Darker areas: no selectivity

<sup>1)</sup> SIEMENS Type 5SE2; Size: D01, D02, D03; Operating class gG; Rated voltage: AC 400 V/DC 250 V

<sup>2)</sup> SIEMENS Type 5SB2, 5SB4, 5SC2; Size: DII, DIII, DIV; Operating class gG; Rated voltage: AC 500 V/DC 500 V

<sup>3)</sup> SIEMENS Type 3NA3 8, 3NA6 8, 3NA7 8; Size: 000, 00; Operating class gG; Rated voltage: AC 500 V/DC 250 V

#### Short Circuit Selectivity NmRB6 towards Neozed<sup>1)</sup> / Diazed<sup>2)</sup> / NH00<sup>3)</sup>

Short circuit currents in kA, rated currents of fuses in A

#### Short circuit selectivity NmRB6 towards Neozed 1)

NmRB6	Neo	zed <sup>1)</sup>								
I_ [A]	16	20	25	32	35	40	50	63	80	100
B25				1.2	1.3	1.8	3.1	4.7	6	6
B32					1.2	1.7	2.7	3.8	5.5	6
B40						1.3	1.7	2.2	2.7	4.2
C25				1.1	1.3	1.8	2.8	3.9	5.6	6
C32					1.2	1.7	2.6	3.6	5.1	6
C40						1.3	1.9	3.3	3.2	5.8

#### Short circuit selectivity NmRB6 towards Diazed 1)

NmRB6	6 Diaz	ed <sup>2)</sup>							
I <sub>n</sub> [A]	16	20	25	32	35	50	63	80	100
B25				1.1	1.5	2.4	5.5	6	6
B32					1.4	2.1	4.3	6	6
B40						1.4	2.4	2.9	5.1
C25				1.1	1.5	2.3	4.4	6	6
C32					1.4	2.2	4.1	5.6	6
C40						1.6	2.8	3.6	6

#### Short circuit selectivity NmRB6 towards NH00 3)

NmRB6 NH00
------------

I <sub>n</sub> [A]	16	20	25	32	35	40	50	63	80	100	125	160
B25				0.9	1.2	1.6	2.4	3.4	5.5	6	6	6
B32					1.1	1.4	2.1	2.9	4.3	6	6	6
B40							1.4	1.9	2.8	4.1	6	6
C25				0.9	1.2	1.6	2.3	3	4.6	6	6	6
C32					1.1	1.5	2.1	2.8	4.3	6	6	6
C40							1.5	2.1	3.1	5.4	6	6

Darker areas: no selectivity

<sup>1)</sup> SIEMENS Type 5SE2; Size: D01, D02, D03; Operating class gG; Rated voltage: AC 400 V/DC 250 V

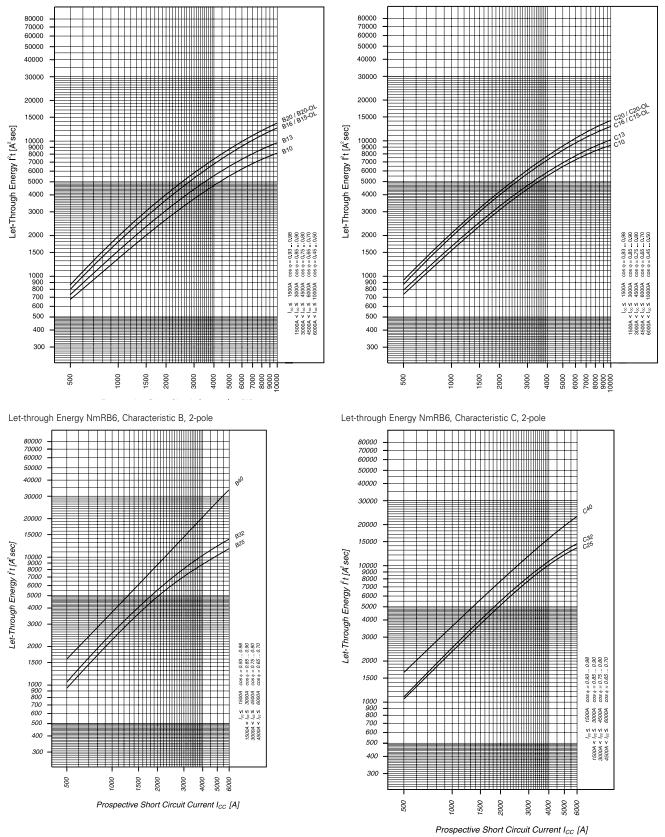
<sup>2)</sup> SIEMENS Type 5SB2, 5SB4, 5SC2; Size: DII, DIII, DIV; Operating class gG; Rated voltage: AC 500 V/DC 500 V

<sup>3)</sup> SIEMENS Type 3NA3 8, 3NA6 8, 3NA7 8; Size: 000, 00; Operating class gG; Rated voltage: AC 500 V/DC 250 V

#### Let-through Energy NmRB.../2/

Let-through Energy NmRBM, Characteristic B, 2-pole





#### Specifications | Combined RCD/MCB Devices NmRBM, 3-pole

#### Description

- Combined RCD/MCB Devices
- Line voltage-independent tripping
- Compatible with standard busbar
- Twin-purpose terminal (lift/open-mouthed) above and below
- Busbar positioning optionally above or below
- Free terminal space despite installed busbar
- Guide for secure terminal connection
- Switching toggle (MCB component) in colour designating the rated current
- Contact position indicator red green
- Fault current tripping indicator white blue
- Comprehensive range of accessories can be mounted subsequently
- The test key "T" must be pressed every 6 months. The system operator must be informed of this obligation and his responsibility in a way that can be proven (self-adhesive RCD-label enclosed). The test interval of 6 months is valid for residential and similar applications. Under all other conditions (e.g. damply or dusty environments), it's recommended to test in shorter intervals (e.g. monthly).
- Pressing the test key "T" serves the only purpose of function testing the residual current device (RCD). This test does not make earthing resistance measurement (R<sub>E</sub>), or proper checking of the earth conductor condition redundant, which must be performed separately.

- **Type -A**: Protects against special forms of residual pulsating DC which have not been smoothed
- Type -Li/A: As Type –A, but in addition it is short-time delayed. Highly reliable against unwanted tripping.

Accessories:		
Tripping signal switch for subsequent installation	ZP-IHK	286052
	ZP-NHK	248437
	ZP-WHK	286053
Shunt trip release	ZP-ASA/	248438, 248439

# 1.16

# Protective Devices

Combined RCD/MCB Devices NmRBM, 3-pole

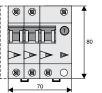
#### **Technical Data**

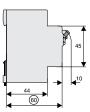
		NmRBM, 3-pole
Electrical		
Design according to		IEC/EN 61009
Current test marks as printed onto the device		
Line voltage-independent tripping		250 A (8/20 μs), conditionally surge current proof
Rated voltage	U <sub>e</sub>	30 mA types: 230 V AC; 50 Hz
	-	100 mA types: 230/400 V AC; 50 Hz
Rated tripping current	Ι <sub>Δn</sub>	30, 100 mA
Rated non-tripping current		0.5 l <sub>Δn</sub>
Sensitivity		AC and pulsating DC
Selectivity class		3
Rated breaking capacity	I <sub>cn</sub>	10 kA
Rated current		10 - 32 A
Short-circuit breaking capacity acc. to IEC/EN 60947-2		
Rated ultimate short-circuit breaking capacity	I <sub>cu</sub>	15 kA
Rated service short-circuit breaking capacity	I <sub>cs</sub>	6 kA
Rated impulse withstand voltage	U <sub>imp</sub>	4 kV (1.2/50 μs)
Characteristic	·	B, C
Maximum back-up fuse (short circuit)		100 A gL (>10 kA)
Endurance		
electrical components		$\geq$ 2,000 switching operations
mechanical components		$\geq$ 10,000 switching operations
Mechanical		
Frame size		45 mm
Device height		80 mm
Device width		70 mm (4MU)
Mounting		3-position DIN rail clip, permits removal from existing busbar system
Degree of protection, switch		IP20
Degree of protection, built-in		IP40
Upper and lower terminals		open mouthed/lift terminals
Terminal protection		finger and hand touch safe, DGUV VS3, EN 50274
Terminal capacity		1 - 25 mm <sup>2</sup>
Terminal torque		2 - 2.4 Nm
Busbar thickness		0.8 - 2 mm
Operating temperature		-25°C to +40°C
		-25°C to +40°C -35°C to +60°C

### **Connection diagram**

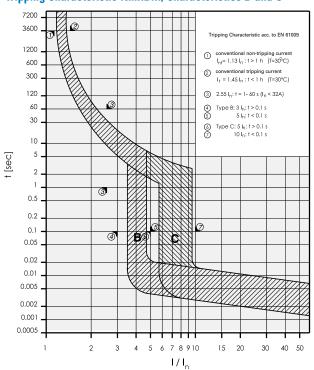


### Dimensions (mm)





# 1.17



#### Tripping Characteristic NmRBM, Characteristics B and C

#### Specifications | Combined RCD/MCB Devices NmRB., 3+N-pole

#### Description

- Combined RCD/MCB Devices
- Line voltage-independent tripping
- Compatible with standard busbar
- Twin-purpose terminal (lift/open-mouthed) above and below
- Busbar positioning optionally above or below
- Free terminal space despite installed busbar
- Guide for secure terminal connection
- Switching toggle (MCB component) in colour designating the rated current
- Contact position indicator red green
- Fault current tripping indicator white blue
- Comprehensive range of accessories can be mounted subsequently
- The test key "T" must be pressed every 6 months. The system operator must be informed of this obligation and his responsibility in a way that can be proven (self-adhesive RCD-label enclosed). The test interval of 6 months is valid for residential and similar applications. Under all other conditions (e.g. damply or dusty environments), it's recommended to test in shorter intervals (e.g. monthly).
- Pressing the test key "T" serves the only purpose of function testing the residual current device (RCD). This test does not make earthing resistance measurement (R<sub>E</sub>), or proper checking of the earth conductor condition redundant, which must be performed separately.

• **Type -A**: Protects against special forms of residual pulsating DC which have not been smoothed

Accessories:			
Tripping signal switch for subsequent installation	ZP-IHK	286052	
	ZP-NHK	248437	
	ZP-WHK	286053	
Shunt trip release	ZP-ASA/	248438, 248439	

# Protective Devices

Combined RCD/MCB Devices NmRB., 3+N-pole

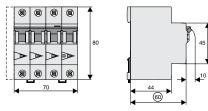
#### **Technical Data**

		NmRB., 3+N-pole
Electrical		
Design according to		IEC/EN 61009
Current test marks as printed onto the device		
Line voltage-independent tripping		250 A (8/20 μs), conditionally surge current proof
Rated voltage	Ue	230/400 V; 50 Hz
Rated tripping current	I <sub>An</sub>	30, 100, 300 mA
Rated non-tripping current	I <sub>Ano</sub>	0.5 l <sub>Δn</sub>
Sensitivity		AC and pulsating DC
Selectivity class		3
Rated breaking capacity	I <sub>cn</sub>	
NmRB6	011	6 kA
NmRB4		4.5 kA
Rated current		6 - 32 A
Short-circuit breaking capacity acc. to IEC/EN 60947-2		
Rated ultimate short-circuit breaking capacity	I <sub>cu</sub>	for mrb6 6 kA
Rated service short-circuit breaking capacity	I <sub>cs</sub>	for mrb6 3 kA
Rated ultimate short-circuit breaking capacity	I <sub>cu</sub>	for mrb4 4.5 kA
Rated service short-circuit breaking capacity	I <sub>cs</sub>	for mrb4 3 kA
Rated impulse withstand voltage	U <sub>imp</sub>	4 kV (1.2/50 μs)
Characteristic	mp	B, C, D
Maximum back-up fuse (short circuit)		100 A gL/gG
Endurance		
electrical components		$\geq$ 4,000 switching operations
mechanical components		$\geq$ 20,000 switching operations
Mechanical		
Frame size		45 mm
Device height		80 mm
Device width		70 mm (4MU)
Mounting		3-position DIN rail clip, permits removal from existing busbar system
Degree of protection, switch		IP20
Degree of protection, built-in		IP40
Upper and lower terminals		open mouthed/lift terminals
Terminal protection		finger and hand touch safe, DGUV VS3, EN 50274
Terminal capacity		1 - 25 mm <sup>2</sup>
Terminal torque		2 - 2.4 Nm
Busbar thickness		0.8 - 2 mm
Operating temperature		-25°C to +40°C
Storage- and transport temperature		-35°C to +60°C
Resistance to climatic conditions		according to IEC/EN 61009

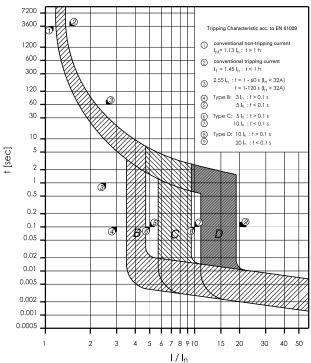
#### **Connection diagram**



#### **Dimensions (mm)**



#### Tripping Characteristic NmRB., Characteristics B, C and D



#### Back-up Protection between NmRB. and NZM1 Short circuit currents in kA.

NmRB4/NmRB6	NZMB1(C1)(N1)(H1)-A			
	U <sub>e</sub> = 415	V		
	В	C	D	
6	-	20	20	
10	-	20	20	
13	20	20	20	
16	20	20	20	
20	-	20	20	
25	-	20	-	

 $U_e = 415V$ : I<sub>cn</sub> (NmRB4) = 4.5 kA (acc. to IEC/EN 61009)

 $U_e = 415V$ :  $I_{cn}$  (NmRB6) = 6 kA (acc. to IEC/EN 61009)

- $\begin{array}{l} U_{e} = 400/415 V: \ I_{cu} \ (NZMB1) = 25 \ kA \ (acc. \ to \ IEC/EN \ 60947-2) \\ U_{e} = 400/415 V: \ I_{cu} \ (NZMC1) = 36 \ kA \ (acc. \ to \ IEC/EN \ 60947-2) \end{array}$
- $U_e = 400/415V$ :  $I_{cu}$  (NZIMC1) = 50 kA (acc. to IEC/EN 60947-2)  $U_e = 400/415V$ :  $I_{cu}$  (NZIMN1) = 50 kA (acc. to IEC/EN 60947-2)
- $U_e = 400/415V$ :  $I_{cu} (NZMH1) = 30 \text{ kA} (acc. to IEC/EN 60547-2)$  $U_e = 400/415V$ :  $I_{cu} (NZMH1) = 100 \text{ kA} (acc. to IEC/EN 60947-2)$

## Back-up Protection between NmRB. and PLSM-OV63

#### Short circuit currents in kA.

NmRB4/NmRB6	<b>PLSM-0V63</b> U <sub>e</sub> = 400 V		
	В	C	D
6	-	10	10
10	-	10	10
13	10	10	10
16	10	10	10
20	-	10	10
25	-	10	-

 $\rm U_{e}$  = 415V:  $\rm I_{cn}$  (NmRB4) = 4.5 kA (acc. to IEC/EN 61009)

 $U_e = 415V$ :  $I_{cn}$  (NmRB6) = 6 kA (acc. to IEC/EN 61009)

 $\rm U_{e}$  = 400V:  $\rm I_{cu}$  (PLSM-OV) = 10 kA (acc. to IEC/EN 60947-2)

#### Back-up Protection between NmRB. and NZM2

NmRB4/NmRB6	<b>NZMB2(C2)(N2)(H2)-A…</b> U <sub>e</sub> = 415 V			
	В	C	D	
6	-	20	20	
10	-	20	20	
13	20	20	20	
16	20	20	20	
20	-	20	20	
25	-	20	-	

 $\begin{array}{l} U_{e} = 415V{:} \ I_{cn} \ (NmRB4) = 4.5 \ kA \ (acc. \ to \ IEC/EN \ 61009) \\ U_{e} = 415V{:} \ I_{cn} \ (NmRB6) = 6 \ kA \ (acc. \ to \ IEC/EN \ 61009) \\ U_{e} = 400/415V{:} \ I_{cu} \ (NZMB2) = 25 \ kA \ (acc. \ to \ IEC/EN \ 60947-2) \\ U_{e} = 400/415V{:} \ I_{cu} \ (NZMC2) = 36 \ kA \ (acc. \ to \ IEC/EN \ 60947-2) \\ U_{e} = 400/415V{:} \ I_{cu} \ (NZMN2) = 50 \ kA \ (acc. \ to \ IEC/EN \ 60947-2) \\ U_{e} = 400/415V{:} \ I_{cu} \ (NZMN2) = 150 \ kA \ (acc. \ to \ IEC/EN \ 60947-2) \\ U_{e} = 400/415V{:} \ I_{cu} \ (NZMH2) = 150 \ kA \ (acc. \ to \ IEC/EN \ 60947-2) \\ \end{array}$ 

## Back-up Protection between NmRB. and PLHT-OV80

#### Short circuit currents in kA.

NmRB4/NmRB6	<b>PLHT-0V80</b> U <sub>e</sub> = 400 V			
	B	C	D	
6	-	20	20	
10	-	20	20	
13	20	20	20	
16	20	20	20	
20	-	20	20	
25	-	20	-	

 $\rm U_{e}$  = 415V:  $\rm I_{cn}$  (NmRB4) = 4.5 kA (acc. to IEC/EN 61009)

 $U_e = 415V: I_{cn} (NmRB6) = 6 \text{ kA} (acc. to IEC/EN 61009)$ 

 $\rm U_e$  = 400V:  $\rm I_{cu}$  (PLHT-80) = 20 kA (acc. to IEC/EN 60947-2)