

xPole Home

New residential breaker range for protection and safety of your home

Residual Current Devices HNC



Catalog



Powering Business Worldwide

sg01018_r



Description

- A compact range of residual current devices for a wide range of applications
- For fault current/residual current protection and additional protection
- Selection of nominal currents
- Basic range of accessories
- Real contact position indicator

$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
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Type AC

Conditionally surge current-proof 250 A, type AC

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2-pole

25/0.03	HNC-25/2/003	194690	1/60
40/0.03	HNC-40/2/003	194691	1/60
63/0.03	HNC-63/2/003	194692	1/60

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4-pole

25/0.03	HNC-25/4/003	194693	1/30
40/0.03	HNC-40/4/003	194694	1/30
63/0.03	HNC-63/4/003	194695	1/30

Type A

Conditionally surge current-proof 250 A, sensitive to residual pulsating DC, type A

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2-pole

25/0.03	HNC-25/2/003-A	194684	1/60
40/0.03	HNC-40/2/003-A	194685	1/60
63/0.03	HNC-63/2/003-A	194686	1/60

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4-pole

25/0.03	HNC-25/4/003-A	194687	1/30
40/0.03	HNC-40/4/003-A	194688	1/30
63/0.03	HNC-63/4/003-A	194689	1/30

Specifications | Residual Current Devices HNC

Description

- Residual Current Devices
- Tripping is line voltage-independent. Consequently, the RCD is suitable for fault current/residual current protection and additional protection
- Twin-purpose terminal (lift/open-mouthed) above and below
- Busbar positioning optionally above or below
- Free terminal space despite installed busbar
- Universal tripping signal switch can be mounted subsequently
- Auxiliary switch Z-HK can be mounted subsequently
- Contact position indicator red - green
- Suitable for being used with standard fluorescent tubes with or without electronic ballast (typically up to 20 units per phase conductor)
- The device functions irrespective of the position of installation
- Tripping is line voltage-independent. Consequently, the RCD is suitable for "fault current/residual current protection" and "additional protection" within the meaning of the applicable installation rules
- Mains connection at either side
- The 4-pole device can also be used for 2- or 3-pole connection. See connection possibilities.
- The test key "T" must be pressed every 6 month. 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 month 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_E), 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

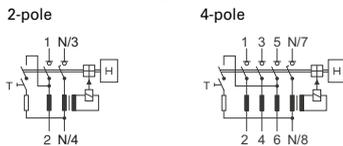
Accessories:

Auxiliary switch for subsequent installation to the left	Z-HK	248432
Remote tripping module	Z-FAM	248293

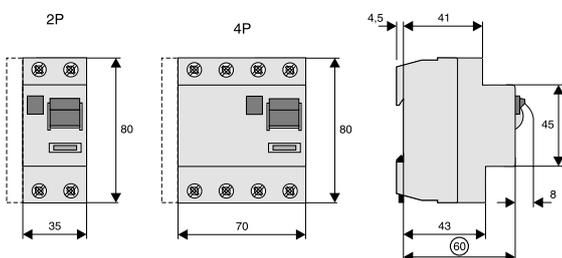
Technical Data

		HNC
Electrical		
Design according to		IEC/EN 61008
Current test marks as printed onto the device		
Tripping		instantaneous
Rated voltage	U_n	230/400 V AC, 50 Hz
Rated tripping current	$I_{\Delta n}$	30 mA
Sensitivity		AC and pulsating DC
Rated insulation voltage	U_i	440 V
Rated impulse withstand voltage	U_{imp}	4 kV (1.2/50 μ s)
Rated short circuit strength	I_{en}	6 kA
Maximum back-up fuse		Short circuit Overload
$I_n = 25$ A		63 A gG/gL 16 A gG/gL
$I_n = 40$ A		63 A gG/gL 25 A gG/gL
$I_n = 63$ A		63 A gG/gL 40 A gG/gL
In the case that the maximal possible operating current of the electrical installation don't exceed the rated current of the RCD only short circuit protection must be implemented. Overload protection must be implemented in the case if the maximal possible operating current of the electrical installation can exceed the rated current of the RCD.		
Rated breaking capacity	I_m	
Rated fault breaking capacity	$I_{\Delta m}$	
$I_n = 25-40$ A		500 A
$I_n = 63$ A		630 A
Voltage range of test button		
2-pole		196 - 264 V~
4-pole		196 - 264 V~
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		35 mm (2MU), 70 mm (4MU)
Mounting		quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715
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		1.5 - 35 mm ² single wire 2 x 16 mm ² multi wire
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		25-55°C/90-95% relative humidity according to IEC 60068-2
Climatic conditions		Acc. to IEC 68-2 (25...55°C / 90...95% RH)

Connection diagrams

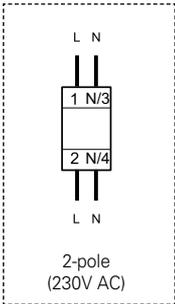


Dimensions (mm)

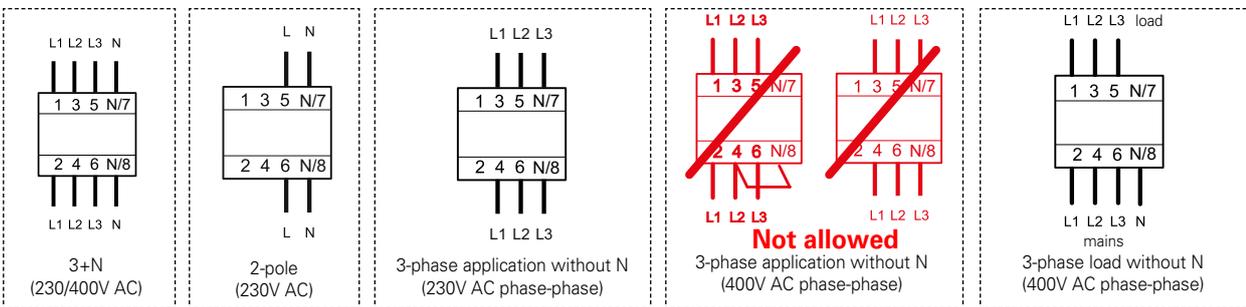


Correct connection

2-pole



4-pole



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