

Protective Devices Combined RCD/MCB Devices PKNM-PT, 1+N-pole

Catalog



Powering Business Worldwide

SG13711



Description

- High-quality residual current device / miniature circuit breaker combination, line voltage-independent
- Version -PT specific for applications in the BS-distribution systems, permanently connected neutral conductors
- Contact position indicator red - green
- Comprehensive range of accessories can be mounted subsequently
- Wide variety of rated tripping currents
- Rated currents up to 40 A
- Tripping characteristics B, C
- Rated breaking capacity 10 kA

$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
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Type AC**10 kA, 1+N-pole** (permanently connected neutral conductor, 550 mm long)**Conditionally surge current-proof 250 A, type AC**

SG13711

**Characteristic B**

6/0.03	PKNM-6/1N/B/003-PT	235980	1/40
10/0.03	PKNM-10/1N/B/003-PT	235981	1/40
13/0.03	PKNM-13/1N/B/003-PT	235982	1/40
16/0.03	PKNM-16/1N/B/003-PT	235983	1/40
20/0.03	PKNM-20/1N/B/003-PT	235984	1/40
25/0.03	PKNM-25/1N/B/003-PT	235985	1/40
32/0.03	PKNM-32/1N/B/003-PT	235986	1/40
40/0.03	PKNM-40/1N/B/003-PT	235987	1/40

SG13711

**Characteristic C**

6/0.03	PKNM-6/1N/C/003-PT	235960	1/40
10/0.03	PKNM-10/1N/C/003-PT	235965	1/40
13/0.03	PKNM-13/1N/C/003-PT	235970	1/40
16/0.03	PKNM-16/1N/C/003-PT	235975	1/40
20/0.03	PKNM-20/1N/C/003-PT	235976	1/40
25/0.03	PKNM-25/1N/C/003-PT	235977	1/40
32/0.03	PKNM-32/1N/C/003-PT	235978	1/40
40/0.03	PKNM-40/1N/C/003-PT	235979	1/40

Specifications | Combined RCD/MCB Devices PKNM-PT, 1+N-pole

Description

- Combined RCD/MCB Devices
- Line voltage-independent tripping
- Compatible with standard busbar
- Twin-purpose terminal (lift/open-mouthed) above
- Free terminal space despite installed busbar
- Contact position indicator red - green
- Comprehensive range of accessories can be mounted subsequently
- This compact protective device is specific for applications in the BS-distributor produced. Permanently connected neutral conductors ($l = 550$ mm, $\varnothing = 6$ mm²).
- 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 intervall 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 intervalls (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.

Accessories:

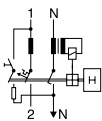
Auxiliary switch for subsequent installation	Z-AHK	248433
Tripping signal switch for subsequent installation	Z-NHK	248434
Shunt trip release	Z-ASA/..	248286, 248287
Additional terminal 35 mm ²	Z-HA-EK/35	263960

Technical Data

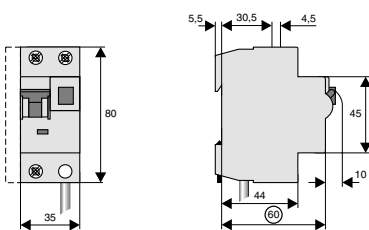
		PKNM-PT, 1+N-pole
Electrical		
Design according to		IEC/EN 61009
Current test marks as printed onto the device		
Line voltage-independent tripping		instantaneous 250 A (8/20 μ s), surge current proof
Rated voltage	U_e	230 V; 50 Hz
Operational voltage range		196-253 V
Rated tripping current	$I_{\Delta n}$	30 mA
Rated non-tripping current	$I_{\Delta no}$	$0.5 I_{\Delta n}$
Sensitivity		AC
Selectivity class		3
Rated breaking capacity	I_{cn}	10 kA
Rated current		6 - 40 A
Rated impulse withstand voltage	U_{imp}	4 kV (1.2/50 μ s)
Characteristic		B, C
Maximum back-up fuse (short-circuit)		100 A gL (>6 kA)
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 (2 MU)
Mounting		quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715
Degree of protection, switch		IP20
Degree of protection, built-in		IP40
Upper terminals		2 x open-mouthed/lift terminals
Lower terminals		1 x open-mouthed/lift terminals
Terminal protection		finger and hand touch safe, DGUV VS3, EN 50274
Terminal capacity		1 - 25 mm ²
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

1+N-pole

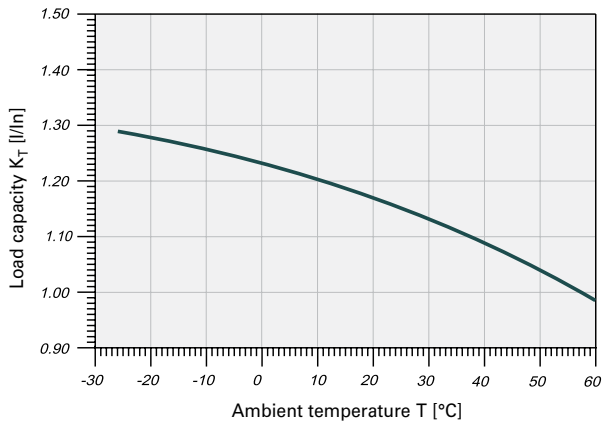


Dimensions (mm)



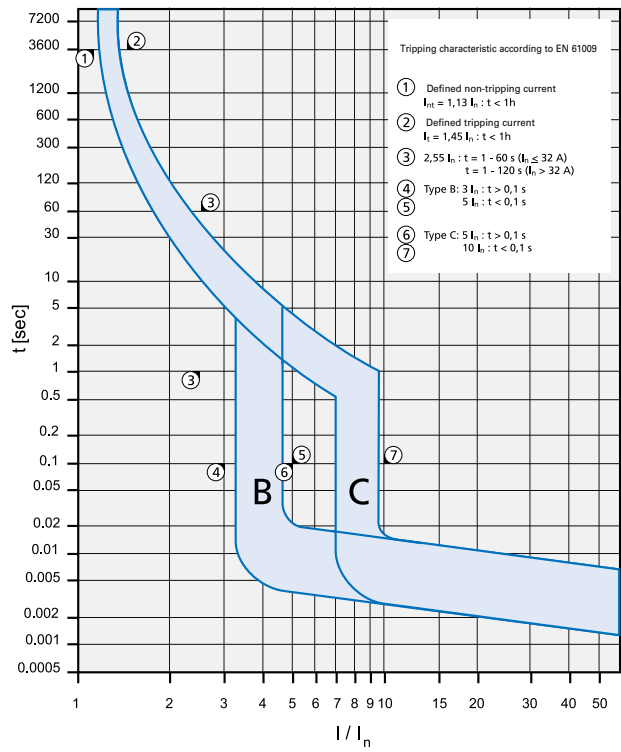
Load Capacity

Effect of ambient temperature (MCB component)



Valid for combined RCD/MCB devices 1+N-pole

Tripping Characteristic PKNM-../1N/..-PT, Characteristics B and C



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Printed in Austria
Publication No. CA019062EN
Article number 302770-MK
August 2020
Graphics: SRA, Schrems

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