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Protective Devices
Combined RCD/MCB Devices
PKNM-1 10VAC, 1+N-pole

Catalog

EATON

Powering Business Worldwide

SG13711

Description

- High-quality residual current device / miniature circuit breaker combination, line voltage-independent
- Contact position indicator red - green
- Guide for secure terminal connection
- 3-position DIN rail clip, permits removal from existing busbar system
- Comprehensive range of accessories can be mounted subsequently
- Rated currents 16, 20 and 32 A
- Tripping Characteristic C
- Rated breaking capacity 10 kA

SG13711

$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
Type AC			
10 kA, 1+N-pole			
Conditionally surge current-proof 250 A, type AC			
Characteristic C			
16/0.03	PKNM-16/1N/C/003-110VAC	286385	1/60
20/0.03	PKNM-20/1N/C/003-110VAC	294128	1/60
32/0.03	PKNM-32/1N/C/003-110VAC	286386	1/60
25/003	PKNM-25/1N/B/003-G/A	182889	1/60
32/003	PKNM-32/1N/B/003-G/A	182890	1/60

Specifications | Combined RCD/MCB Devices PKNM-110VAC, 1+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
- Comprehensive range of accessories can be mounted subsequently
- 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	ZP-IHK	286052
	ZP-WHK	286053
Tripping signal switch for subsequent installation	ZP-NHK	248437
Shunt trip release	ZP-ASA/..	248438, 248439
Additional terminal 35 mm^2	BB-UL-TEPA/35	169823

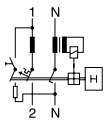
Explanation PKNM:
P = xPole, KN = Combined RCD/MCB Devices, M = 10 kA

Technical Data

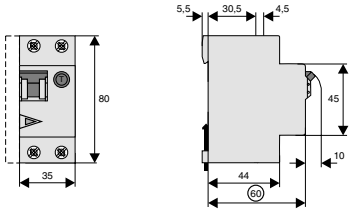
		PKNM-110VAC, 1+N-pole
Electrical		
Design according to Current test marks as printed onto the device		IEC/EN 61009
Line voltage-independent tripping		instantaneous 250 A (8/20 µs), surge current proof
Rated voltage	U_e	110 V AC; 50 Hz
Operational voltage range		94-121 V
Rated tripping current	$I_{\Delta n}$	30 mA
Rated non-tripping current	$I_{\Delta no}$	0.5 $I_{\Delta n}$
Rated insulation voltage	U_i	440 VAC
Sensitivity		AC
Selectivity class		3
Rated breaking capacity	I_{cn}	10 kA
Rated current		16, 20, 32 A
Rated impulse withstand voltage	U_{imp}	4 kV (1.2/50 µs)
Characteristic		C
Maximum back-up fuse (short-circuit)		100 A gL (>10 kA)
Endurance		
electrical components		≥ 4,000 switching operations
mechanical components		≥ 20,000 switching operations
Mechanical		
Frame size		45 mm
Device height		80 mm
Device width		35 mm (2 MU)
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^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)



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