SG13711



Description

- High-quality residual current device / miniature circuit breaker combination, line voltageindependent
- 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

1.276 Protective Devices

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

 $|{}_{\rm n}/|{}_{\Delta \rm n}$ Туре Article No. Units per (A) Designation package

Type AC

10 kA, 1+N-pole (permanently connected neutral conductor, 550 mm long)

Conditionally surge current-proof 250 A, type AC

SG13711



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



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 (I = 550 mm, Ø = 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		
Terminal cover cap	KLV-TC-2	276240		
Additional terminal 35 mm ²	Z-HA-EK/35	263960		

Protective Devices Combined RCD/MCR Devices

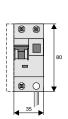
Combined RCD/MCB Devices PKNM-PT, 1+N-pole - Technical Data

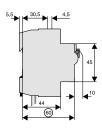
Design according to IEC/EN 61009	Technical Data		
Electrical Electrical Electrical Electron El			PKNM-PT, 1+N-pole
Current test marks as printed onto the device	Electrical		
Intervoltage - Independent tripping	Design according to		IEC/EN 61009
Rated voltage	Current test marks as printed onto the device		
Departional voltage range	Line voltage-independent tripping		instantaneous 250 A (8/20 μs), surge current proof
Bated tripping current I _{An} 30 mA Pared non-tripping current I _{An} 0.5 I _{An} Selectivity class 3 Bated breaking capacity I _m 10 kA Pared current 6 - 40 A Pared current B, C Pared current sitic B, C Maximum back-up fuse (short circuit) 100 A gL (>6 kA) Endurance electrical components ≥ 4,000 switching operations mechanical components ≥ 20,000 switching operations frame size 45 mm Device height 80 mm Device width 35 mm (2MU) Mounting quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715 Degree of protection, switch IP20 Degree of protection, switch IP40 Upper reminals 2 x open mouthed/lift terminals cower terminals 1 x open mouthed/lift terminals ferminal protection finger and hand touch safe, DGUV VS3, EN 50274 ferminal torque 2 - 2.4 Mm subsar thickness 0.8 - 2 mm Stripping temperature -35°C to +40	Rated voltage	U _e	230 V; 50 Hz
Rated non-tripping current	Operational voltage range		196-253 V
Auto Company Compa	Rated tripping current	I _{An}	30 mA
Sensitivity AC Selectivity class 3 Bated breaking capacity I _{on} 10 kA Bated current 6 - 40 A Bated impulse withstand voltage U _{mp} 4 kV (1.2/50 µs) Characteristic B, C Maximum back-up fuse (short circuit) 100 A gL (>6 kA) Endurance electrical components ≥ 4,000 switching operations mechanical components ≥ 20,000 switching operations Mechanical 45 mm Device height 80 mm Device height 90 mm Device width 35 mm (2MUl) 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 Degree of protection, built-in IP40 Lower 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 torque 2 - 2.4 km Susbart hickness 0.8 - 2 mm	Rated non-tripping current		0.5 I _{An}
Rated breaking capacity Rated current Rated current Rated impulse withstand voltage Vimp Valva (1.2/50 μs) Rated current Rated impulse withstand voltage Vimp Valva (1.2/50 μs) Rocharacteristic Rocharacteristi	Sensitivity		
Rated current 6 - 40 A Rated impulse withstand voltage U _{imp} 4 kV (1.2/50 µs) Characteristic B, C Maximum back-up fuse (short circuit) 100 A gL (>6 kA) Endurance electrical components mechanical components mechanical components Endurance electrical components mechanical Frame size 45 mm Device width 80 mm Device width 35 mm (2MU) Mounting quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715 Degree of protection, switch 1P20 Degree of protection, switch 1P40 Upper terminals 2 x open mouthed/lift terminals Lower terminals 1 x open mouthed/lift terminals Lower terminals 1 x open mouthed/lift terminals Lerminal protection Ereminal protection Ereminal torque 1 - 25 mm² Ereminal torque 2 - 2.4 Nm Susbar thickness 0 .8 - 2 mm Eripping temperature - 25°C to +40°C Storage- and transport temperature	Selectivity class		3
Alated impulse withstand voltage U _{imp} 4 kV (1.2/50 µs) Characteristic B, C Maximum back-up fuse (short circuit) 100 A gL (>6 kA) Endurance electrical components mechanical components mechanical components frame size 45 mm Device height 80 mm Device width 35 mm (2MU) Mounting quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715 Degree of protection, switch Degree of protection, built-in IP40 Upper terminals 2 x open mouthed/lift terminals Lower terminals 1 x open mouthed/lift terminals Ereminal protection Ereminal protection Ereminal capacity 1 - 25 mm² Ereminal torque 2 - 2.4 Nm Busbar thickness 0.8 - 2 mm Erripping temperature - 25°C to +40°C Storage- and transport temperature	Rated breaking capacity	I _{cn}	10 kA
Characteristic B, C Maximum back-up fuse (short circuit) Endurance electrical components mechanical components Erame size Device height Device width Solve of protection, switch Degree of protection, switch Degree of protection, built-in Degree of protection, built-in Degree of protection, built-in Degree of protection	Rated current		6 - 40 A
Characteristic B, C Maximum back-up fuse (short circuit) Endurance electrical components mechanical components Erame size Device height Device width Solve of protection, switch Degree of protection, switch Degree of protection, built-in Degree of protection, built-in Degree of protection, built-in Degree of protection	Rated impulse withstand voltage	U _{imp}	4 kV (1.2/50 μs)
Endurance electrical components mechanical components bechanical rame size 45 mm Device height 80 mm Device width 35 mm (2MU) Mounting quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715 Degree of protection, switch Degree of protection, switch Degree of protection, built-in Deper terminals Lower te	Characteristic		B, C
electrical components mechanical components because A 5 mm Device height Device height Device width Mounting Degree of protection, switch Degree of protection, switch Degree of protection, built-in Degree of protection, built-in Degree of protection, built-in Degree of protection, built-in Degree of protection and bu	Maximum back-up fuse (short circuit)		100 A gL (>6 kA)
Mechanical Frame size 45 mm Device height 80 mm Device width 35 mm (2MU) 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 terminal protection finger and hand touch safe, DGUV VS3, EN 50274 Terminal torque 2 - 2.4 Nm Busbar thickness 0.8 - 2 mm Tripping temperature -25°C to +40°C Storage- and transport temperature -35°C to +60°C	Endurance		
Mechanical Frame size 45 mm Device height 80 mm Device width 35 mm (2MU) 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 torque 2 - 2.4 Nm Busbar thickness 0.8 - 2 mm Tripping temperature -25°C to +40°C Storage- and transport temperature -35°C to +60°C	electrical components		≥ 4,000 switching operations
Frame size 45 mm Device height 80 mm Device width 35 mm (2MU) 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 torque 2 - 2.4 Nm Busbar thickness 0.8 - 2 mm Tripping temperature -25°C to +40°C Storage- and transport temperature -35°C to +60°C	mechanical components		≥ 20,000 switching operations
Device height 80 mm Device width 35 mm (2MU) 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 torque 2 - 2.4 Nm Busbar thickness 0.8 - 2 mm Tripping temperature -25°C to +40°C Storage- and transport temperature -35°C to +60°C	Mechanical		
Device width 35 mm (2MU) Mounting Quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715 Degree of protection, switch Degree of protection, built-in IP20 Upper terminals 2 x open mouthed/lift terminals Lower terminals 1 x open mouthed/lift terminals Ierminal protection finger and hand touch safe, DGUV VS3, EN 50274 Ierminal torque 2 - 2.4 Nm Busbar thickness 0.8 - 2 mm Irripping temperature Storage- and transport temperature -35°C to +40°C Storage- and transport temperature	Frame size		45 mm
Mountingquick fastening with 2 lock-in positions on DIN rail IEC/EN 60715Degree of protection, switchIP20Degree of protection, built-inIP40Upper terminals2 x open mouthed/lift terminalsLower terminals1 x open mouthed/lift terminalsTerminal protectionfinger and hand touch safe, DGUV VS3, EN 50274Terminal capacity1 - 25 mm²Terminal torque2 - 2.4 NmBusbar thickness0.8 - 2 mmTripping temperature-25°C to +40°CStorage- and transport temperature-35°C to +60°C	Device height		80 mm
Degree of protection, switch Degree of protection, built-in Degree of protection of	Device width		35 mm (2MU)
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 mm² Terminal torque 2 - 2.4 Nm Susbar thickness 0.8 - 2 mm Tripping temperature -25°C to +40°C Storage- and transport temperature -35°C to +60°C	Mounting		quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715
Upper terminals _ower terminals _in x open mouthed/lift terminals 1 x open mouthed/lift terminals 1 x open mouthed/lift terminals ferminal protection finger and hand touch safe, DGUV VS3, EN 50274 ferminal capacity 1 - 25 mm² ferminal torque 2 - 2.4 Nm Gusbar thickness 0.8 - 2 mm fripping temperature -25°C to +40°C Storage- and transport temperature -35°C to +60°C	Degree of protection, switch		IP20
Lower terminals1 x open mouthed/lift terminalsTerminal protectionfinger and hand touch safe, DGUV VS3, EN 50274Terminal capacity1 - 25 mm²Terminal torque2 - 2.4 NmBusbar thickness0.8 - 2 mmTripping temperature-25°C to +40°CStorage- and transport temperature-35°C to +60°C	Degree of protection, built-in		IP40
Terminal protection finger and hand touch safe, DGUV VS3, EN 50274 Terminal capacity 1 - 25 mm² Terminal torque 2 - 2.4 Nm Susbar thickness 0.8 - 2 mm Tripping temperature -25°C to +40°C Storage- and transport temperature -35°C to +60°C	Upper terminals		
Terminal capacity 1 - 25 mm² Terminal torque 2 - 2.4 Nm Busbar thickness 0.8 - 2 mm Tripping temperature -25°C to +40°C Storage- and transport temperature -35°C to +60°C	Lower terminals		
Terminal torque 2 - 2.4 Nm Susbar thickness 0.8 - 2 mm Tripping temperature -25°C to +40°C Storage- and transport temperature -35°C to +60°C	Terminal protection		finger and hand touch safe, DGUV VS3, EN 50274
Busbar thickness 0.8 - 2 mm Tripping temperature -25°C to +40°C Storage- and transport temperature -35°C to +60°C	Terminal capacity		1 - 25 mm ²
Tripping temperature -25°C to +40°C Storage- and transport temperature -35°C to +60°C	Terminal torque		2 - 2.4 Nm
Storage- and transport temperature -35°C to +60°C	Busbar thickness		0.8 - 2 mm
	Tripping temperature		-25°C to +40°C
Resistance to climatic conditions according to IEC/EN 61009	Storage- and transport temperature		-35°C to +60°C
	Resistance to climatic conditions		according to IEC/EN 61009

Connection diagram



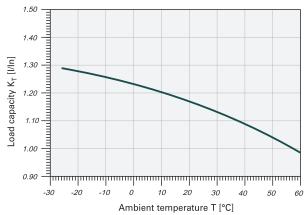
Dimensions (mm)





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

