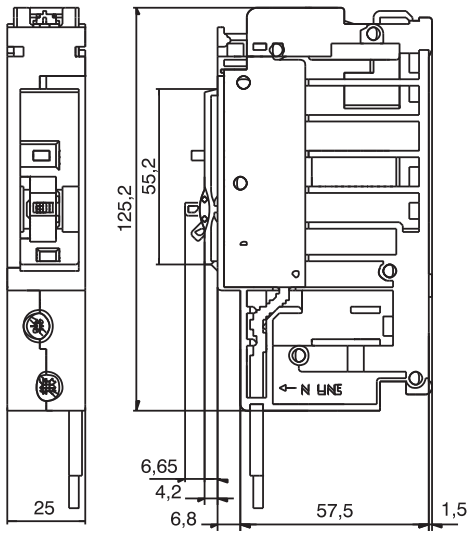
Electronic combined MCB/RCD devices PKA6, 1+N-pole

Features at a glance

- Electronic combined MCB/RCD device
- Permanent connected neutral conductor (750 mm)
- Contact position indicator red - green
- Tripping characteristic C
- Rated breaking capacity 6 kA
- Australian approval numbers NSW20024 and NSW26670
- European quality
- Eaton tested and approved as direct replacement of Eaton ELQ RCBO product in Eaton distribution boards and load centre assemblies

Dimensions (mm)



Powering Business Worldwide

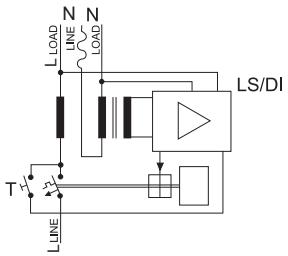
Electronic Combined RCD/MCB Devices PKA6 1+N-pole

Conditionally surge current-proof 250 A, type AC

I_n / $I_{\Delta n}$ (A)	Type designation	Units per package
Characteristic C		
10/0.01	PKA6-10/1N/C/001	1/30
13/0.01	PKA6-13/1N/C/001	1/30
16/0.01	PKA6-16/1N/C/001	1/30
20/0.01	PKA6-20/1N/C/001	1/30
25/0.01	PKA6-25/1N/C/001	1/30
32/0.01	PKA6-32/1N/C/001	1/30
40/0.01	PKA6-40/1N/C/001	1/30
10/0.03	PKA6-10/1N/C/003	1/30
13/0.03	PKA6-13/1N/C/003	1/30
16/0.03	PKA6-16/1N/C/003	1/30
20/0.03	PKA6-20/1N/C/003	1/30
25/0.03	PKA6-25/1N/C/003	1/30
32/0.03	PKA6-32/1N/C/003	1/30
40/0.03	PKA6-40/1N/C/003	1/30
10/0.1	PKA6-10/1N/C/01	1/30
13/0.1	PKA6-13/1N/C/01	1/30
16/0.1	PKA6-16/1N/C/01	1/30
20/0.1	PKA6-20/1N/C/01	1/30
25/0.1	PKA6-25/1N/C/01	1/30
32/0.1	PKA6-32/1N/C/01	1/30
40/0.1	PKA6-40/1N/C/01	1/30

Connection diagram

1+N-pole



Technical data

Electrical	
Design according to	IEC/EN 61009
Current test marks as printed onto the device	
Number of poles	1+N-pole Pole switched, N led through (solid neutral)
Rated voltage U_n	240 VAC
Rated frequency	50 Hz
Rated current I_n	6 - 40 A
Rated tripping current $I_{\Delta n}$	10, 30, 100 mA
Sensitivity	AC
Endurance electrical comp.	≥ 4,000 switching op.
mechanical comp.	≥ 20,000 switching op.
Tripping Characteristic RCD component	
Tripping	
line voltage-dependent	instantaneous
Peak withstand current	250A (8/20µs)
Rated non-tripping current $I_{\Delta no}$	0.5 $I_{\Delta n}$
Voltage range for protective function	120 - 250 V~
Tripping Characteristic MCB component	
Conventional non-tripping current	1.13 I_n
Conventional tripping current	1.45 I_n
Reference temperature	30°C
Characteristic	C
Rated breaking capacity	6 kA
Selectivity class	3
Ultimate short circuit breaking capacity	I_{mt}
Type C	5 $I_n \leq I_{mt} \leq 10\ I_n$: t ($I_{mt}$) ≤ 0,1s
Ultimate short circuit breaking capacity I_{cn}	6 kA
Rated short circuit breaking capacity I_{nc}	6 kA
Mechanical	
Terminal capacity	1 - 25 mm²
Busbar thickness below	0.8 - 2 mm
Perm. ambient temperature range	-25°C to +40°C
Resistance to climatic conditions	25-55°C/90-95% relative humidity acc. to IEC 60068-2

DIN Fuse Back-Up Data

RCBO Item no.	Breaking Capacity (kA_{rms})	Eaton Upstream Fuse Link Item no.	Three-phase prospective short-circuit current (kA_{rms})	Pre-arcing I^2t (A^2s)	Total I^2t @ 500V (A^2s)	Peak cut-off current @ 50kA_{rms} (kA_{pk})	Watts Loss (W)
PKA6-10/1N/C/xxx	6	F5GG200U1	50	97,000	368,600	18	15
PKA6-16/1N/C/xxx	6	F5GG200U1	50	97,000	368,600	18	15
PKA6-20/1N/C/xxx	6	F5GG200U1	50	97,000	368,600	18	15
PKA6-25/1N/C/xxx	6	F5GG200U1	50	97,000	368,600	18	15
PKA6-32/1N/C/xxx	6	F5GG250U1	50	151,300	574,900	25	19
PKA6-40/1N/C/xxx	6	F5GG250U1	50	151,300	574,900	25	19

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