

# Protective Devices

## Electronic Combined RCD/MCB Devices eRB6-AU, 1+N-pole, 1 Module Unit

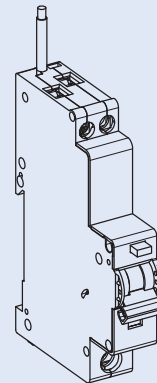
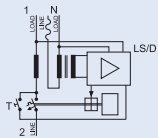
- Electronic residual current device / miniature circuit breaker combination in only 1MU
- Tripping line voltage dependent
- Contact position indicator red - green
- Can be sealed with leads in the on and off position
- Colour coded switching toggle (designating the rated current)
- Permanently connected neutral conductor (950 mm long, black)
- Special application in British-Standard-Distribution Boxes
- Can be connected to standard busbar (at the lower side)
- Comprehensive range of accessories suitable for subsequent installation

### 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
Tripping module	Z-KAM	248294

### Connection diagram

1+N-pole



### Technical Data

#### Electrical

Design according to	IEC 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	50/60 Hz
Rated current $I_n$	6 - 45 A
Rated tripping current $I_{\Delta n}$	10, 30, 100, 300 mA
Sensitivity	AC

#### Tripping Characteristic RCD component:

Tripping	instantaneous
line voltage-dependent	
Peak withstand current	250A (8/20 $\mu$ s)
Rated non-tripping current $I_{\Delta no}$	0.5 $I_{\Delta n}$
Voltage range for protective function	184 - 264 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, D
Rated breaking capacity	6 kA
Selectivity class	3
Maximum back-up fuse > 6 kA	100 A gL
Endurance electrical comp.	$\geq$ 4,000 operating cycles
mechanical comp.	$\geq$ 20,000 operating cycles

#### Mechanical

Frame size	45 mm
Device height	102.6 mm
Device width	17.7 mm (1MU)
Mounting	quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715
Upper terminals	lift terminals
Lower terminals	open mouthed/lift terminals
Terminal protection	finger and hand touch safe, BGV A3, ÖVE-EN 6
Terminal capacity	1 - 25 mm <sup>2</sup>
Busbar thickness below	0.8 - 2 mm
Degree of protection, built-in	IP40
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

### Dimensions (mm)

