

■ Datasheet: RCBO (Combined MCB/RCD), AK series, 6kA, Type A, 3+N



■ SCHRACK-INFO

- Contact position indicator
- Terminal guide for secure connection
- Terminal cross-section: 1-25mm²
- Snap-on mounting for DIN rail EN 50 022

■ Technische Daten

| | |
|--|------------------------|
| Standard | IEC/EN 61009-1 |
| Type | A |
| Poles | 3+N |
| Rated voltage | 230/400 V AC |
| Rated frequency | 50/60 Hz |
| Rated current I _n | 20 A, 25 A, 32 A, 40 A |
| Tripping characteristics | B, C |
| Rated sensitivity I _{Δn} | 0,03 A |
| Selectivity class | 3 |
| Rated residual making and breaking capacity I _{Δm} | 3 kA |
| Rated short-circuit capacity I _{nc} = I _{Δc} | 6 kA |

| | |
|--|--|
| Rated impulse withstand voltage (1.2/50) U_{imp} | 4 kV |
| Dielectric TEST voltage at ind. Freq. for 1 minute | 2 kV |
| Insulation voltage U_i | 500 V |
| Max. Permissible backup fuse against short circuit | 63A gG |
| Break time under $I_{\Delta n}$ | ≤ 0.1 s |
| Pollution degree | 2 |
| Electrical life | > 2.000 cycles |
| Mechanical life | > 10.000 cycles |
| Contact position indicator | Yes |
| Protection degree | IP 20 |
| Ambient temperature | -25 °C bis +60 °C |
| Storage temperature | -25 °C bis +70 °C |
| Terminal connection type | Cable / Fork- / Pin-type busbar |
| Connection | From top and bottom |
| Terminal size for cable | 1 - 25 mm ² |
| Terminal size for busbar | 10 mm ² |
| Tightening torque | 2 Nm |
| Mounting | On DIN rail EN 60715 (35mm) by means of fast clip device |
| Neutralconductor | Right side |

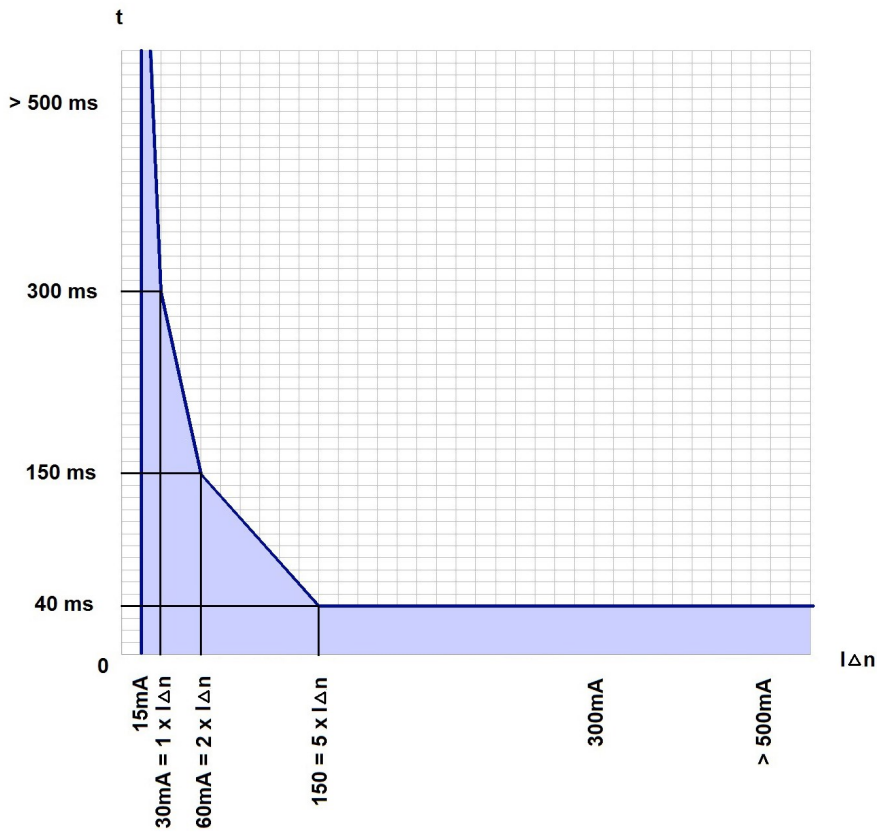
Temperature derating

The maximum permissible current in a circuit breaker depends on the ambient temperature where the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed.

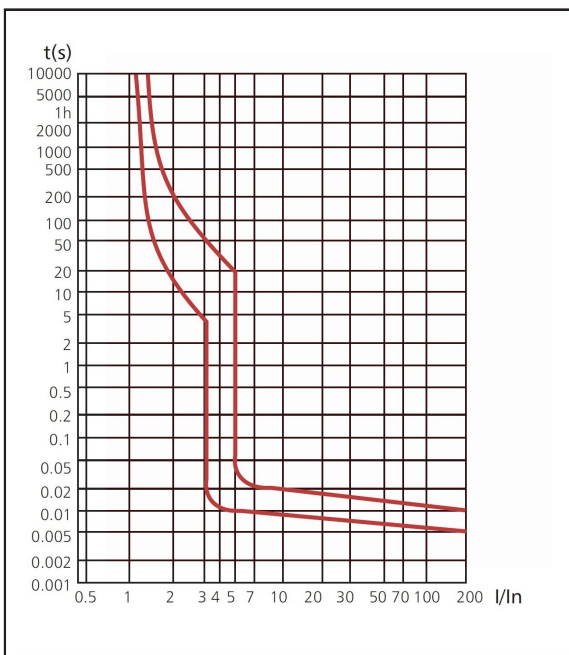
The reference temperature is 30 °C

| Temperature | - 10 °C | 0 °C | 10 °C | 20 °C | 30 °C | 40 °C | 50 °C | 60 °C |
|---|---------|------|-------|-------|-------|-------|-------|-------|
| Temperature compensation coefficient of rated current | 1.20 | 1.15 | 1.10 | 1.05 | 1.00 | 0.95 | 0.90 | 0.85 |

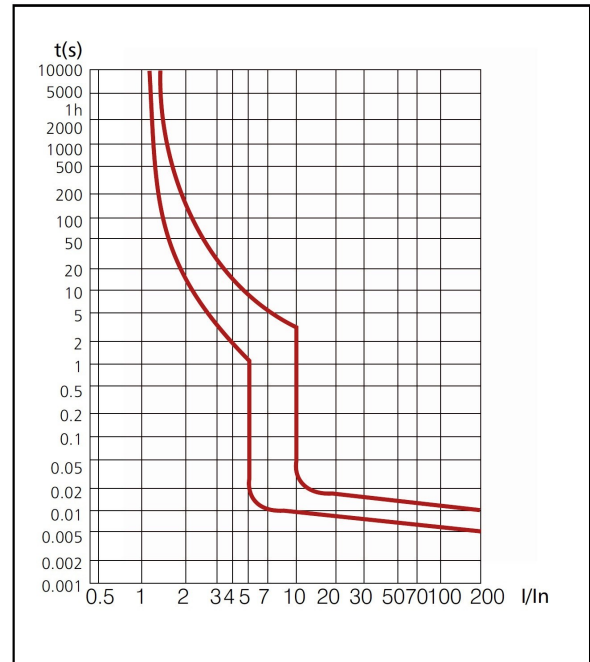
Tripping characteristic



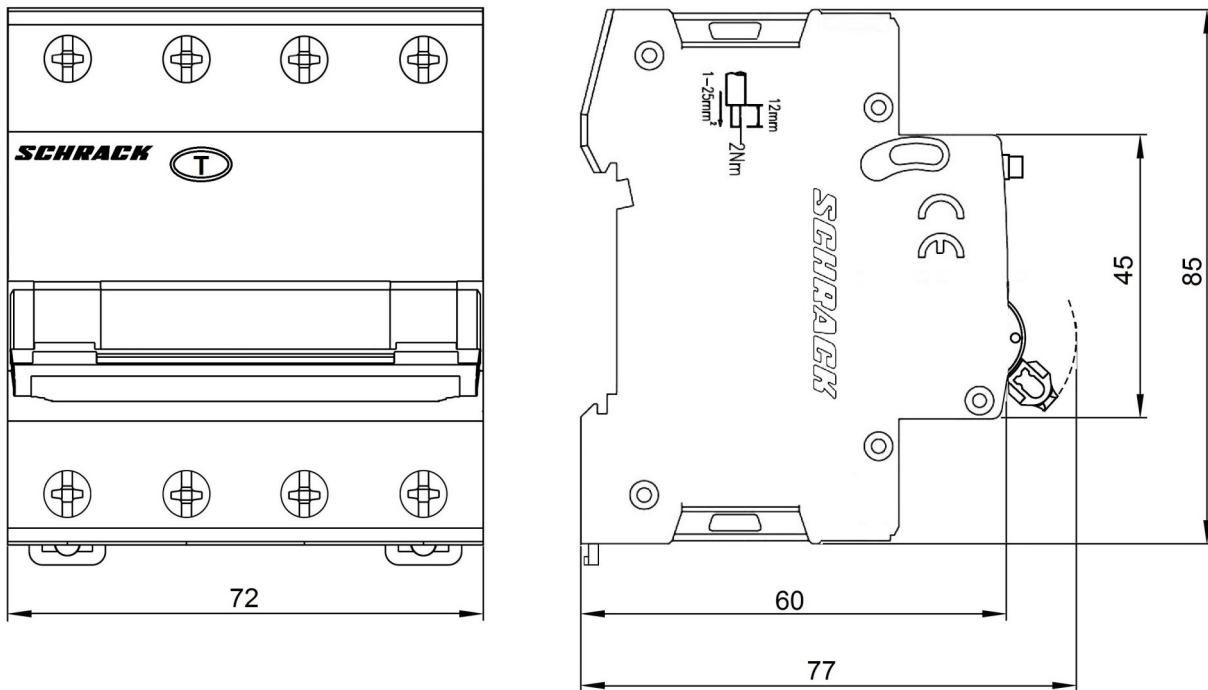
Characteristic B



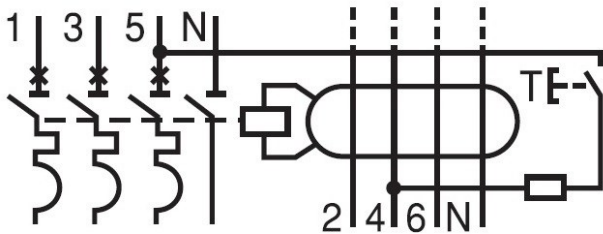
Characteristic C



Measurements



Circuit diagram



Articles

RCBO (Combined MCB/RCD), AK series, 6kA, Typ A, 3+N

| Description | Order No. |
|-------------------------|------------|
| Characteristic B | |
| 20A | AK668820-- |
| 25A | AK668825-- |
| 32A | AK668832-- |
| 40A | AK668840-- |
| Characteristic C | |
| 20A | AK667820-- |
| 25A | AK667825-- |
| 32A | AK667832-- |
| 40A | AK667840-- |