

DATA SHEET: RCBO COMBINED MCB AND RCCB SERIES AMPARO 1+N, 10KA, TYPE A, NEUTRAL ON RIGHT SIDE



SCHRACK-INFO

- Contact position indicator
- Terminal guide for secure connection
- Terminal cross-section: 1-25mm<sup>2</sup>
- Snap-on mounting for DIN rail EN 50 022

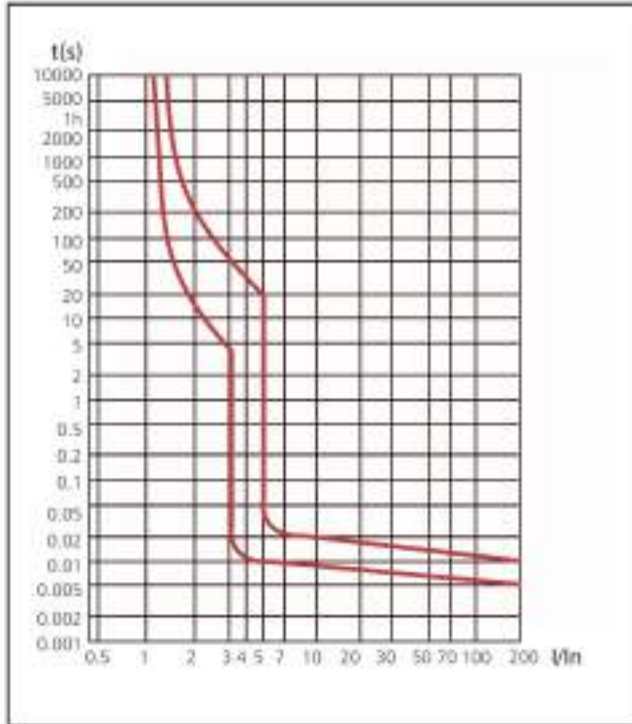
TECHNICAL DATA:

|                                             |                                  |
|---------------------------------------------|----------------------------------|
| Standards:                                  | IEC 61009-1 / EN 61009-1         |
| Type                                        | A                                |
| Poles                                       | 1+N                              |
| Rated voltage (AC):                         | 230/400V-AC                      |
| Rated frequency (AC):                       | 50/60Hz                          |
| Rated current I <sub>n</sub>                | 6A, 10A, 16A, 20A, 25A, 32A, 40A |
| Tripping characteristics:                   | B, C                             |
| Rated sensitivity I <sub>Δn</sub>           | 0,03A                            |
| Breaking time under I <sub>Δn</sub>         | ≤ 0,1s                           |
| Rated breaking capacity:                    | 6 kA                             |
| Energy limiting class                       | 3                                |
| Rated residual making and breaking capacity | 500A                             |
| Breaking capacity I <sub>Δm</sub>           | 10000A                           |

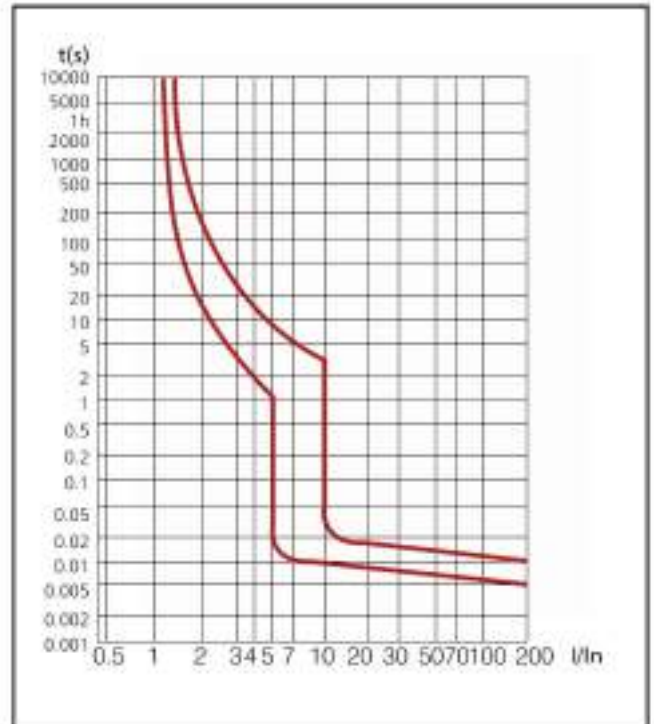
|                                                       |                                              |
|-------------------------------------------------------|----------------------------------------------|
| Rated impulse withstand voltage                       | 6kV                                          |
| Dielectric test voltage at ind. Freq. for 1 min.      | 2kV                                          |
| Insulation voltage $U_i$                              | 500V                                         |
| Max. back-up fuse as short circuit protection (SCPD): | 63A gG                                       |
| Tripping time                                         |                                              |
| undelayed                                             | $I\Delta n$ $\leq 300\text{ms}$              |
|                                                       | $2 \times I\Delta n$ $\leq 150\text{ms}$     |
|                                                       | $\geq 5 \times I\Delta n$ $\leq 40\text{ms}$ |
| No tripping residual current $I_{\Delta no}$          | $\leq 0,5 I\Delta n$                         |
| Power loss                                            | $\leq 6.7\text{W}$                           |
| Polution degree                                       | 2                                            |
| Electrical endurance:                                 | > 2.000 operating cycles                     |
| Mechanical endurance:                                 | > 2.000 operating cycles                     |
| Contact position indicator                            | yes                                          |
| Protection degree                                     | IP 20                                        |
| Reference temperature:                                | 30°C                                         |
| Tripping temperature:                                 | -5 °C to +40 °C                              |
| Operating temperature:                                | -25 °C to +70 °C                             |
| Terminal connection type top                          | Cable/ Pin-type busbar                       |
| Terminal connection type bottom                       | Cable/U-type busbar / Pin-type busbar        |
| Connection                                            | From top and bottom                          |
| Terminal cross-section:                               | 1 - 25mm <sup>2</sup>                        |
| Terminal tightening torque:                           | 2Nm                                          |
| Terminal size for busbar                              | 10mm <sup>2</sup>                            |
| Mounting:                                             | on DIN rail EN 60715 (35mm)                  |
|                                                       | by means of fast clip device                 |

TRIPPING CURVES:

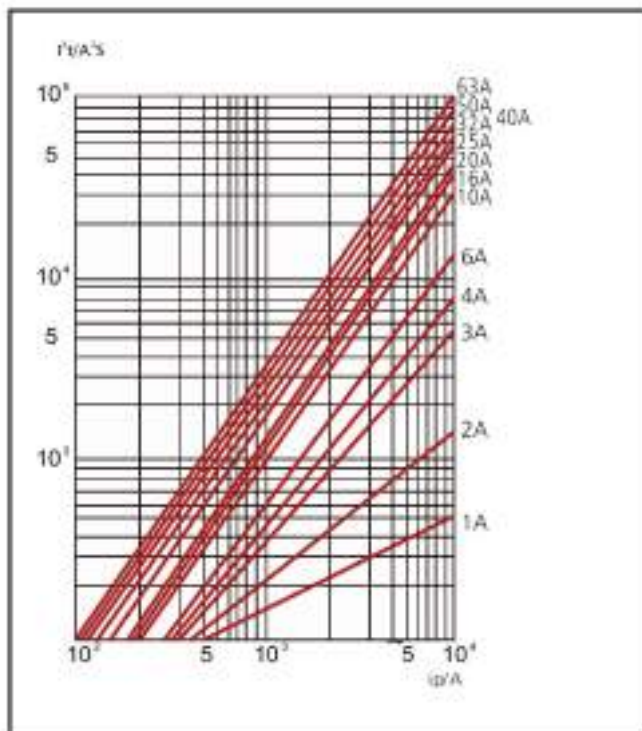
Characteristic B



Characteristic C



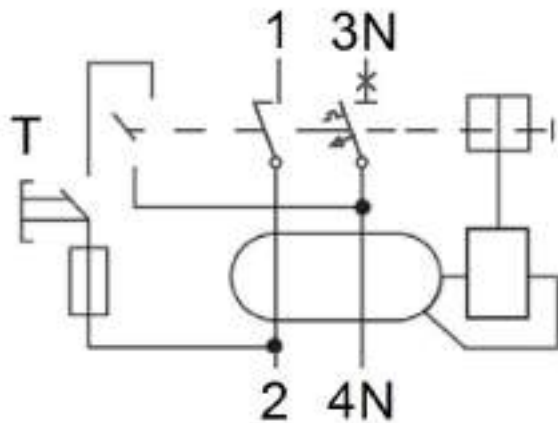
Let-through energy  $I^2t$



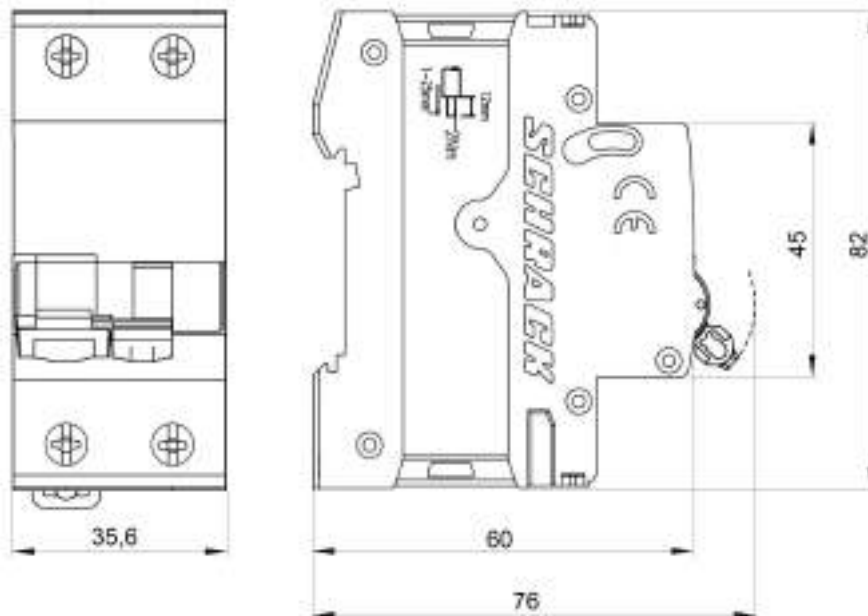
■ INFLUENCE OF AMBIENT TEMPERATURE ON TRIPPING CURRENT

|     | - 10°C | 0°C  | 10°C | 20°C | 30°C | 40°C | 50°C | 60°C |
|-----|--------|------|------|------|------|------|------|------|
| 6A  | 7,2    | 6,9  | 6,6  | 6,3  | 6    | 5,7  | 5,4  | 5,1  |
| 10A | 12     | 11,5 | 11   | 10,5 | 10   | 9,5  | 9    | 8,5  |
| 16A | 19,2   | 18,4 | 17,6 | 16,8 | 16   | 15,2 | 14,4 | 13,6 |
| 20A | 24     | 23   | 22   | 21   | 20   | 19   | 18   | 17   |
| 25A | 30     | 28,8 | 27,5 | 26,3 | 25   | 23,8 | 22,5 | 21,3 |
| 32A | 38,4   | 36,8 | 35,2 | 33,6 | 32   | 30,4 | 28,8 | 27,2 |
| 40A | 48     | 46   | 44   | 42   | 40   | 38   | 36   | 34   |

■ WIRING DIAGRAM:



■ DIMENSIONS:



 ARTICLES:

RCBO Combined MCB and RCCB series AMPARO 1+N, 10kA, type A, neutral on right side

| Description             | order no.  |
|-------------------------|------------|
| <b>Characteristic B</b> |            |
| 6A                      | AK618606-- |
| 10A                     | AK618610-- |
| 13A                     | AK618613-- |
| 16A                     | AK618616-- |
| 20A                     | AK618620-- |
| 25A                     | AK618625-- |
| 32A                     | AK618632-- |
| 40A                     | AK618640-- |
| <b>Characteristic C</b> |            |
| 6A                      | AK617606-- |
| 10A                     | AK617610-- |
| 13A                     | AK617613-- |
| 16A                     | AK617616-- |
| 20A                     | AK617620-- |
| 25A                     | AK617625-- |
| 32A                     | AK617632-- |
| 40A                     | AK617640-- |