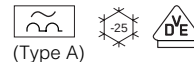


# BETA Protecting Residual Current Protective Devices



## RCCBs, type A

### Technical specifications

|                                                         |                                            |                 |  | Instantaneous                                                                           | SIGRES                                                                                         | Super resistant | Selective   |
|---------------------------------------------------------|--------------------------------------------|-----------------|--|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|-------------|
| Standards                                               |                                            |                 |  | IEC/EN 61008-1 (VDE 0664-10); IEC/EN 61008-2-1 (VDE0664-11); IEC/EN 61543 (VDE 0664-30) |                                                                                                |                 |             |
| Approved acc. to                                        |                                            |                 |  | IEC 61008-1, IEC 61008-2-1; EN 61008-1, EN 61008-2-1                                    |                                                                                                |                 |             |
| Surge current withstand capability                      |                                            |                 |  |                                                                                         |                                                                                                |                 |             |
| With current waveform 8/20 μs                           | acc. to EN 60060-2                         | kA              |  | > 1                                                                                     |                                                                                                | > 3             | > 5         |
| Rated breaking capacity                                 |                                            |                 |  | A                                                                                       | 10000                                                                                          |                 |             |
| Minimum operational voltage for test function operation |                                            |                 |  | V AC                                                                                    | 100                                                                                            |                 |             |
| Terminal conductor cross-sections                       |                                            |                 |  |                                                                                         |                                                                                                |                 |             |
| • For 2 MW                                              | at I <sub>n</sub> = 16 A, 25 A, 40 A       | mm <sup>2</sup> |  | 1.0 ... 16                                                                              |                                                                                                |                 |             |
|                                                         | at I <sub>n</sub> = 100 A, 125 A           | mm <sup>2</sup> |  | 1.5 ... 50                                                                              | --                                                                                             | --              | --          |
| • For 2.5 MW                                            | at I <sub>n</sub> = 63 A, 80 A             | mm <sup>2</sup> |  | 1.5 ... 25                                                                              |                                                                                                |                 |             |
| • For 4 MW                                              | at I <sub>n</sub> = 25 A, 40 A, 63 A, 80 A | mm <sup>2</sup> |  | 1.5 ... 25                                                                              |                                                                                                |                 |             |
|                                                         | at I <sub>n</sub> = 125 A                  | mm <sup>2</sup> |  | 2.5 ... 50                                                                              | --                                                                                             | --              | 2.5 ... 50  |
| Terminal tightening torque                              |                                            |                 |  |                                                                                         |                                                                                                |                 |             |
| • Up to I <sub>n</sub> = 80 A                           |                                            | Nm              |  | 2.5 ... 3.0                                                                             |                                                                                                |                 |             |
| • At I <sub>n</sub> = 100 A, 125 A                      |                                            | Nm              |  | 3.0 ... 3.5                                                                             | --                                                                                             | --              | 3.0 ... 3.5 |
| Mains connection                                        |                                            |                 |  | Top or bottom                                                                           | Bottom                                                                                         | Top or bottom   |             |
| Mounting position                                       |                                            |                 |  | Any                                                                                     |                                                                                                |                 |             |
| Degree of protection                                    |                                            |                 |  | IP20, with connected conductors                                                         |                                                                                                |                 |             |
| Touch protection                                        |                                            |                 |  | Finger and back-of-hand safe                                                            |                                                                                                |                 |             |
| Service life                                            |                                            |                 |  | test cycle acc. to IEC/EN 61008                                                         | Switching cycles                                                                               | > 10000         |             |
| Storage temperature                                     |                                            |                 |  | °C                                                                                      | -40 ... +75                                                                                    |                 |             |
| Ambient temperature                                     |                                            |                 |  | °C                                                                                      | -25 ... +45,  |                 |             |
| Resistance to climate                                   |                                            |                 |  | acc. to IEC 60068-2-30                                                                  | 28 cycles (55 °C; 95 % rel. air humidity)                                                      |                 |             |
| CFC and silicone-free                                   |                                            |                 |  | Yes                                                                                     |                                                                                                |                 |             |