



CDA684U

### RCCB 3P+N 100A 30mA A

#### Technical Features

##### Architecture

|              |      |
|--------------|------|
| Type of pole | 3P+N |
|--------------|------|

##### Electric current

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Rated current                                                           | 100 A   |
| Rated residual operating current $I_{dn}$                               | 30 mA   |
| Breaking and opening capacity $I_{dm}$                                  | 1.25 kA |
| Rated conditional short-circuit current $I_{nc}$ according to EN61008-1 | 10 kA   |
| Rated current -25°C                                                     | 100 A   |
| Rated current at -20°C                                                  | 100 A   |
| Rated current -15°C                                                     | 100 A   |
| Rated current -10°C                                                     | 100 A   |
| Rated current -5°C                                                      | 100 A   |
| Rated current at 0°C                                                    | 100 A   |
| Rated current 5°C                                                       | 100 A   |
| Rated current 10°C                                                      | 100 A   |
| Rated current 15°C                                                      | 100 A   |
| Rated current at 20°C                                                   | 100 A   |
| Rated current 25°C                                                      | 100 A   |
| Rated current 30°C                                                      | 100 A   |
| Rated current 35°C                                                      | 100 A   |
| Rated current at 40°C                                                   | 100 A   |
| Rated current at 45°C                                                   | 100 A   |
| Rated current at 50°C                                                   | 100 A   |
| Rated current 55°C                                                      | 100 A   |
| Rated current 60°C                                                      | 100 A   |
| Rated current 65°C                                                      | 95 A    |
| Rated current 70°C                                                      | 90 A    |

##### Installation, mounting

|                                         |                |
|-----------------------------------------|----------------|
| Nominal tightening torque top terminal  | 3.60 - 3.60 Nm |
| Nominal tightening torque down terminal | 3.60 - 3.60 Nm |

##### Voltage

|                                                       |             |
|-------------------------------------------------------|-------------|
| Rated operational voltage $U_e$                       | 230 - 400 V |
| Type voltage supply                                   | AC          |
| Rated insulation voltage $U_i$                        | 500 V       |
| Dielectric strength value of power frequency          | 2 kV        |
| Rated impulse withstand voltage $U_{imp}$             | 4000 V      |
| Rated impulse withstand voltage $U_{imp}$ IEC 60947-3 | 6000 V      |
| Max. operating voltage                                | 440 V       |

##### Frequency

|           |            |
|-----------|------------|
| Frequency | 50 - 50 Hz |
|-----------|------------|

##### Capacity

|                   |   |
|-------------------|---|
| Number of modules | 4 |
|-------------------|---|

##### Compatibility

|                       |     |
|-----------------------|-----|
| Suitable for DIN Rail | Yes |
|-----------------------|-----|

##### Safety

|                               |      |
|-------------------------------|------|
| Residual current type         | A    |
| Ingress Protection (IP) class | IP20 |

##### Installation, mounting

|                                               |                |
|-----------------------------------------------|----------------|
| Type of top connection for modular devices    | Screw terminal |
| Type of bottom connection for modular devices | biconnect      |

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**Connection**

|                                                              |                        |
|--------------------------------------------------------------|------------------------|
| Cross-section of output with screws, for massive conductors  | 1 - 50 mm <sup>2</sup> |
| Cross-section of output with screws, for flexible conductors | 1 - 35 mm <sup>2</sup> |

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**Power**

|                           |         |
|---------------------------|---------|
| Total power loss under IN | 21.48 W |
|---------------------------|---------|

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**Use conditions**

|                       |             |
|-----------------------|-------------|
| Max. Altitude         | 2000 m      |
| Operating temperature | -25 - 60 °C |

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**Endurance**

|                                        |       |
|----------------------------------------|-------|
| Electric endurance in number of cycles | 10000 |
| Number of mechanical operations        | 20000 |

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**Connectivity**

|                                               |                  |
|-----------------------------------------------|------------------|
| Type of connection                            | Screw terminal   |
| Top connection alignment for modular devices  | Aligned terminal |
| Down connection alignment for modular devices | Aligned terminal |

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**Dimensions**

|        |       |
|--------|-------|
| Height | 85 mm |
| Width  | 72 mm |
| Depth  | 70 mm |

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**Sustainability**

|              |     |
|--------------|-----|
| RoHS conform | Yes |
|--------------|-----|