



ADC420U

### RCBO 1M 1P 10kA C-20A 30mA Type A

#### Technical Features

##### Architecture

|              |    |
|--------------|----|
| Type of pole | 1P |
| Curve        | C  |

##### Electric current

|                                                       |               |
|-------------------------------------------------------|---------------|
| Rated current                                         | 20 A          |
| Rated residual operating current $I_{dn}$             | 30 mA         |
| Rated current -25°C                                   | 25.09 A       |
| Rated current at -20°C                                | 24.63 A       |
| Rated current -15°C                                   | 24.16 A       |
| Rated current -10°C                                   | 23.70 A       |
| Rated current -5°C                                    | 23.24 A       |
| Rated current at 0°C                                  | 22.78 A       |
| Rated current 5°C                                     | 22.31 A       |
| Rated current 10°C                                    | 21.85 A       |
| Rated current 15°C                                    | 21.39 A       |
| Rated current at 20°C                                 | 20.93 A       |
| Rated current 25°C                                    | 20.46 A       |
| Rated current 30°C                                    | 20 A          |
| Rated current 35°C                                    | 19.53 A       |
| Rated current at 40°C                                 | 19.05 A       |
| Rated current at 50°C                                 | 18.10 A       |
| Rated current 55°C                                    | 17.63 A       |
| Rated current 60°C                                    | 17.15 A       |
| Min./max. threshold value of the AC thermal operation | 1.13 - 1.45 A |

##### Safety

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

##### Main electrical attributes

|                                                                            |       |
|----------------------------------------------------------------------------|-------|
| Rated short-circuit breaking capacity $I_{cn}$ AC according to IEC 60898-1 | 10 kA |
|----------------------------------------------------------------------------|-------|

##### Voltage

|                                               |             |
|-----------------------------------------------|-------------|
| Rated insulation voltage $U_i$                | 250 V       |
| Rated impulse withstand voltage $U_{imp}$     | 4000 V      |
| Rated operational voltage $U_e$               | 230 - 240 V |
| Overvoltage category according to IEC 60947-1 | 3           |

##### Power

|                              |        |
|------------------------------|--------|
| Total power loss under $I_N$ | 6.50 W |
|------------------------------|--------|

##### Frequency

|           |            |
|-----------|------------|
| Frequency | 50 - 60 Hz |
|-----------|------------|

##### Use conditions

|                                   |        |
|-----------------------------------|--------|
| Max. Altitude                     | 2000 m |
| Class of energy limitation $I^2t$ | 3      |

##### Endurance

|                                        |       |
|----------------------------------------|-------|
| Electric endurance in number of cycles | 2000  |
| Number of mechanical operations        | 10000 |

##### Connection

|                                                             |                        |
|-------------------------------------------------------------|------------------------|
| Cross-section of input with screws, for flexible conductors | 1 - 10 mm <sup>2</sup> |
| Cross-section of input with screws, for massive conductors  | 1 - 16 mm <sup>2</sup> |

##### Capacity

|                   |   |
|-------------------|---|
| Number of modules | 1 |
|-------------------|---|

# Product Datasheet

## ADC420U

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### Installation, mounting

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

### Dimensions

|        |          |
|--------|----------|
| Height | 115 mm   |
| Width  | 17.80 mm |
| Depth  | 70 mm    |

### Use conditions

|                               |             |
|-------------------------------|-------------|
| Operating temperature         | -25 - 40 °C |
| Storage/transport temperature | -40 - 70 °C |

### Connection

|                                                                        |                        |
|------------------------------------------------------------------------|------------------------|
| Cross-section of input and output with screws, for flexible conductors | 1 - 16 mm <sup>2</sup> |
| Cross-section of input and output with screws, for massive conductors  | 1 - 25 mm <sup>2</sup> |

### Compatibility

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

### Sustainability

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