



ADC916T

RCBO 1M 1P+N 6kA C-16A 30mA A

Technical properties

Architecture

| | |
|---------------------------|-------------------------------|
| Neutral position | right |
| Number of protected poles | 1 |
| Number of poles | 2 P |
| Fixing mode | DIN rail type O (symmetrical) |
| Curve | C |

Configuration

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

Connectivity

| | |
|---|------------------|
| Top connection alignment for modular devices | Shifted terminal |
| Bottom connection alignment for modular devices | Aligned terminal |

Main electrical features

| | |
|---|-------------|
| Rated short circuit breaking capacity I _{cn} AC according IEC60898-1 | 6 kA |
| Rated operational voltage U _e | 230 / 240 V |
| Type of supply voltage | AC |
| Frequency | 50 Hz |

Voltage

| | |
|---------------------------------|-------|
| Rated insulation voltage | 440 V |
| Max operating voltage | 264 V |
| Rated impulse withstand voltage | 4 kV |

Electric current

| | |
|--|----------------------------|
| Rated residual operating current | 30 mA |
| Rated current | 16 A |
| Withstand not tripping on 8-20 μs wave | 250 A |
| Breaking and opening capacity | 4.5 kA |
| min/maxi threshold value of the AC thermal operation | 1.13 / 1.45 I _n |
| Magnetic regulating current | 5 / 10 I _n |

Electric current / temperature

| | |
|----------------------|--------|
| Rating current -25°C | 20.5 A |
| Rating current -20°C | 20.1 A |
| Rating current -15°C | 19.7 A |
| Rating current -10°C | 19.3 A |

| | |
|---------------------|--------|
| Rating current -5°C | 18.9 A |
| Rating current 0°C | 18.5 A |
| Rating current 5°C | 18.1 A |
| Rating current 10°C | 17.6 A |
| Rating current 15°C | 17.2 A |
| Rating current 20°C | 16.8 A |
| Rating current 25°C | 16.4 A |
| Rating current 30°C | 16 A |
| Rating current 35°C | 15.7 A |
| Rating current 40°C | 15.5 A |
| Rating current 45°C | 15.2 A |
| Rating current 50°C | 15 A |
| Rating current 55°C | 14.7 A |
| Rating current 60°C | 14.5 A |
| Rating current 65°C | 14.2 A |
| Rating current 70°C | 14 A |

Dimensions

| | |
|-----------------------------|---------|
| Depth of installed product | 70 mm |
| Height of installed product | 85 mm |
| Width of installed product | 17.7 mm |

Frequency

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

Power

| | |
|---------------------------|--------|
| Total power loss under IN | 8.69 W |
| Power loss per pole at In | 5.57 W |

Installation, mounting

| | |
|---|------------|
| Type of top connection for modular devices | with screw |
| Type of bottom rail clip for modular devices | plastic |
| Type of Bottom Connection for modular devices | Blconnect |
| Top removability for modular devices | No |
| Bottom removability for modular devices | Yes |
| Suitable for flush-mounting | Yes |

Connection

| | |
|--|------------------------|
| Connection cross-section at output with screw, for flexible conductor | 1 / 10 mm ² |
| Connection cross-section at output with screw, for massive conductor | 1 / 16 mm ² |
| Connection cross-section for rigid conductor, upstream terminals with screws | 1 / 16 mm ² |
| Connection cross-section of the access with screws, with flexible conductor | 1 / 10 mm ² |
| Downstream cage clamp delivery status | opened |
| Upstream cage clamp delivery status | opened |
| Connection cross-section of input and output with screws, for massive conductors | 1 / 16 mm ² |

Subject to technical modifications

Cable

| | |
|---|---------------------|
| Length of conductors used for the heating test (m) according to product standard | 1 m |
| Conductor cross-section used for heating test(mm ²) according to product standard | 2.5 mm ² |

Equipment

| | |
|---------------------------------------|-----|
| Quick connect | no |
| Type selective | No |
| Can be accessorized | No |
| With transparent product label holder | Yes |

Standards

| | |
|-------------------------|------------------------------|
| Standard text | IEC 61009-1 ; AS/NZS 61009-1 |
| European directive WEEE | concerned |

Safety

| | |
|-----------------------|------|
| Protection index IP | IP2X |
| Residual current type | A |

Use conditions

| | |
|---|-------------|
| Operating temperature | -25...70 °C |
| Class of energy limitation I ² t | 3 |
| Altitude | 2000 m |
| Storage/transport temperature | -25...80 °C |

temperatur

| | |
|--|---------|
| Temperature of calibration | 30 °C |
| Ambient air temperature during heating test according to the product standard | 24 °C |
| Max. admissible temperature on accessible parts (intended to be touched) | 59.2 °C |
| Max. admissible temperature on accessible parts (manual operating means) | 46.8 °C |
| Max. admissible temperature on access. parts (not touched for normal operation) | 78.5 °C |
| Max. admissible temperature on terminals | 67.5 °C |
| Temp.-rise limits for access. parts (toggle) according to product standard | 40 K |
| Temp.-rise limits for access. parts (not touched) according to product standard | 60 K |
| Temp.rise limits for access. parts (to be touched) according to product standard | 40 K |
| Temperature-rise limits for terminals according to the product standard | 65 K |
| Temperature-rise measured on accessible parts at In (manual operating means) | 6.8 K |
| Temperature-rise measured on access. parts at In (not touched normal operation) | 38.5 K |
| Temperature-rise measured on accessible parts at In (intended to be touched) | 19.2 K |

