



ADC220T

RCBO 1M 1P 6kA C-20A 30mA A Class

Technical properties

Architecture

| | |
|---------------------------|-------------------------------|
| Neutral position | right |
| Number of protected poles | 1 |
| Number of poles | 1 P |
| Type of pole | 1 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 | 50/60 Hz |

Voltage

| | |
|---------------------------------|--------|
| Rated insulation voltage | 250 V |
| Rated impulse withstand voltage | 4000 V |

Electric current

| | |
|--|-------------------|
| Rated residual operating current | 30 mA |
| Rated current | 20 A |
| Withstand not tripping on 8-20 μ s wave | 0.25 kA |
| Breaking and opening capacity | 6000 A |
| 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 | 25.09 A |
| Rating current -20°C | 24.63 A |
| Rating current -15°C | 24.16 A |
| Rating current -10°C | 23.7 A |

| | |
|---------------------|---------|
| Rating current -5°C | 23.24 A |
| Rating current 0°C | 22.78 A |
| Rating current 5°C | 22.31 A |
| Rating current 10°C | 21.85 A |
| Rating current 15°C | 21.39 A |
| Rating current 20°C | 20.93 A |
| Rating current 25°C | 20.46 A |
| Rating current 30°C | 20 A |
| Rating current 35°C | 19.53 A |
| Rating current 40°C | 19.05 A |
| Rating current 45°C | 18.58 A |
| Rating current 50°C | 18.1 A |
| Rating current 55°C | 17.63 A |
| Rating current 60°C | 17.15 A |
| Rating current 65°C | 16.68 A |
| Rating current 70°C | 16.2 A |

Dimensions

| | |
|-----------------------------|---------|
| Depth of installed product | 70 mm |
| Height of installed product | 115 mm |
| Width of installed product | 17.8 mm |

Frequency

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

Power

| | |
|---------------------------|-------|
| Total power loss under IN | 6.5 W |
| Power loss per pole at In | 3.8 W |

Endurance

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

Installation, mounting

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

Connection

| | |
|--|------------------------|
| Connection cross-section at output with screw, for flexible conductor | 1 / 16 mm ² |
| Connection cross-section at output with screw, for massive conductor | 1 / 25 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 |

Subject to technical modifications

| | |
|---|------------------------|
| 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 / 25 mm ² |
| Connection cross section of access and exit with screws, for flexible conductor | 1 / 16 mm ² |
| 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 | |
| Type selective | No |
| Can be accessorized | No |
| With transparent product label holder | Yes |
| Standards | |
| Standard text | IEC 61009-1 |
| European directive WEEE | concerned |
| Safety | |
| Protection index IP | IP20 |
| Residual current type | A |
| Use conditions | |
| Operating temperature | -5...40 °C |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Class of energy limitation I ² t | 3 |
| Altitude | 2000 m |
| Air humidity protection | 95% / 55°C |
| Storage/transport temperature | -40...70 °C |
| temperatur | |
| Temperature of calibration | 30 °C |
| Ambient air temperature during heating test according to the product standard | 22.9 °C |
| Max. admissible temperature on accessible parts (intended to be touched) | 62.8 °C |
| Max. admissible temperature on accessible parts (manual operating means) | 51.8 °C |
| Max. admissible temperature on access. parts (not touched for normal operation) | 63.7 °C |
| Max. admissible temperature on terminals | 65.3 °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 | 40 K |
| Temp.rise limits for access. parts (to be touched) according to product standard | 60 K |
| Temperature-rise limits for terminals according to the product standard | 65 K |

| | |
|---|--------|
| Temperature-rise measured on accessible parts at In (manual operating means) | 11.8 K |
| Temperature-rise measured on access. parts at In (not touched normal operation) | 23.7 K |
| Temperature-rise measured on accessible parts at In (intended to be touched) | 22.8 K |
| Temperature-rise measured on terminals at In | 25.3 K |