

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

ADC320T

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 | С |
| Compatibility | |
| Compatible with DIN rail mounting | yes |
| Connectivity | |
| Bottom connection alignement for modular devices | Aligned terminal |
| Top connection alignement for modular devices | Shifted terminal |
| Main electrical features | |
| Frequency | 50 Hz |
| Rated short circuit breaking capacity Icn AC according IEC60898-1 | g 6 kA |
| Type of supply voltage | AC |
| Rated operational voltage Ue | 240 V |
| Voltage | |
| Rated insulation voltage | 250 V |
| Max operating voltage | 253 V |
| Dielectric strength value of power frequency | 2 kV |
| Rated impulse withstand voltage | 4000 V |
| Electric current | |
| Rated residual operating current | 30 mA |
| Withstand not tripping on 8-20 ?s wave | 3 kA |
| Rated short circuit breaking capacity Icn under 240V AC according IEC 61009-1 | 6 kA |
| Rated service breaking capacity Ics under 240V AC according IEC 61009-1 | 6 kA |
| Breaking and opening capacity | 4,5 kA |
| Dicaking and opening capacity | |

| Technical Properties min/maxi threshold value of the AC thermal operation 1,13/1,45 In | | |
|--|---------|--|
| Electric current / temperature | | |
| Rating current -15°C | 25,64 A | |
| Rating current -20°C | 26,13 A | |
| Rating current 0°C | 24,16 A | |
| Rating current 10°C | 23,17 A | |
| Rating current -10°C | 25,54 A | |
| Rating current 15°C | 22,67 A | |
| Rating current 20°C | 22,18 A | |
| Rating current 25°C | 21,68 A | |
| Rating current -25°C | 26,63 A | |
| Rating current 30°C | 20 A | |
| Rating current 35°C | 20,69 A | |
| Rating current 40°C | 20,2 A | |
| Rating current 45°C | 19,7 A | |
| Rating current 5°C | 23,66 A | |
| Rating current -5°C | 24.65 A | |
| Rating current 50°C | 20 A | |
| Rating current 55°C | 18,72 A | |
| Rating current 60°C | 18,22 A | |
| Rating current 65°C | 17,73 A | |
| Rating current 70°C | 17,23 A | |
| nating current to C | 11,23 A | |
| Current correction factors | | |
| Correction factor of magnetic tripping with 100 Hz | 1,1 | |
| Correction factor of magnetic tripping with 200 Hz | 1,2 | |
| Correction factor of magnetic tripping with 400 Hz | 1,6 | |
| Correction factor of magnetic tripping with 60 Hz | 1 | |
| Correction factor of rating current for 2 devices placed side-by-side | 10,95 | |
| Correction factor of rating current for 3 devices placed side-by-side | 10,95 | |
| Correction factor of rating current for 4 and 5 devices | 0.9 | |
| placed side-by-side | | |
| Correction factor of rating current for 6 devices placed 0,85 side-by-side | | |
| Power | | |
| Power loss per pole at In | 3,46 W | |
| Total power loss under IN | 5,19 W | |
| Tripping | ψ, ε | |
| Protected against nuisance tripping | no | |
| Endurance | | |
| Electric endurance in number of cycles | 16000 | |
| Number of mechanical operations | 20000 | |
| Dimensions | | |
| Depth of installed product | 70 mm | |
| Height of installed product | 92 mm | |
| Width of installed product | 17,7 mm | |
| mail of motance product | , | |

| Ineta | llation | n. moui | ntina |
|-------|---------|---------|-------|
| | | | |

| Type of top connection for modular devices | with screw |
|---|------------|
| Type of bottom rail clip for modular devices | plastic |
| Type of top rail clip for modular devices | NA |
| Type of Bottom Connection for modular devices | with screw |
| Bottom removability for modular devices | yes |
| Top removability for modular devices | no |
| Suitable for flush-mounting | yes |

Connection

| On star and a larger dellarge status | |
|--|----------------------|
| Upstream cage clamp delivery status | opened |
| Downstream cage clamp delivery status | opened |
| Connection cross-section at output with screw, for flexible conductor | 1/16 mm² |
| Connection cross-section of the access with screws, with flexible conductor | 1/10 mm ² |
| Connection cross-section at output with screw, for massive conductor | 1/16 mm² |
| Connection cross-section for rigid conductor, upstream terminals with screws | 1/16 mm² |
| Nominal tightening torque bottom terminal | 2,8 Nm |
| Nominal tightening torque top terminal | 1,9 Nm |
| | |

Cable

| Length of conductors used for the heating test (m) | 1 m |
|--|---------|
| according to product standard | |
| Conductor cross-section used for heating test(mm²) | 2,5 mm² |
| according to product standard | |

Equipment

| Can be accessorized | no | |
|---------------------|----|--|
| Quick connect | no | |
| Type selective | no | |

Standards

| Standard text | IEC 61009-1, AS/NZS 61009-1 |
|-------------------------|-----------------------------|
| European directive WEEE | not concerned |

Safety

| Protection index IP | IP20 |
|-----------------------|------|
| Residual current type | A |

Use conditions

| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3 |
|--|--------------|
| Class of energy limitation I2t | 3 |
| Altitude | 2000 m |
| Storage temperature | -25 to 80 °C |

temperatur

| Temprise limits for access. parts (not touched) according to product standard | 60 K |
|---|-------|
| Temperature of calibration | 30 °C |



| Technical Properties | |
|--|----------|
| Ambient air temperature during heating test according | 23,7 °C |
| to the product standard | |
| Max. admissible temperature on accessible parts | 60,14 °C |
| (intended to be touched) | |
| Max. admissible temperature on accessible parts | 49,5 °C |
| (manual operating means) | |
| Max. admissible temperature on access. parts (not | 67,16 °C |
| touched for normal operation) | |
| Max. admissible temperature on terminals | 68,04 °C |
| Temperature-rise measured on accessible parts at In | 20,14 K |
| (intended to be touched) | |
| Temperature-rise measured on accessible parts at In | 9,5 K |
| (manual operating means) | |
| Temperature-rise measured on access. parts at In | 27,16 K |
| (not touched normal operation) | |
| Temperature-rise measured on terminals at In | 28,04 K |
| Temprise limits for access. parts (toggle) according | 25 K |
| to product standard | |
| Temp.rise limits for access. parts (to be touched) | 40 K |
| according to product standard | |
| Temperature-rise limits for terminals according to the | 65 K |
| product standard | |
| Identification | |
| Device family | ADC |