

30 mA



ADC840F

RCBO 1P+N 4.5kA C-40A 30mA AC

Product Datasheet

| Neutral position | left |
|---|------------------|
| Number of protected poles | 1 |
| Number of poles | 2 P |
| Type of pole | 1P+N |
| Curve | С |
| Functions | |
| Sealable | yes |
| Connectivity | |
| Top connection alignement for modular devices | Shifted terminal |
| Main electrical features | |
| Rated short circuit breaking capacity Icn AC according IEC60898-1 | 4,5 kA |
| Rated operational voltage Ue | 240 V |
| | 50 Hz |
| Frequency | |

| Rated insulation voltage | 500 V |
|---------------------------------|--------|
| Max operating voltage | 240 V |
| Rated impulse withstand voltage | 4000 V |

Electric current

Rated residual operating current

| Rated current | 40 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 ln |
| Magnetic regulating currrent | 5 / 10 ln |
| Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 | 4,5 kA |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 6 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 6 kA |



| Electric current / temperature | |
|---|--------|
| Rating current -25°C | 46,9 A |
| Rating current -20°C | 46,3 A |
| Rating current -15°C | 45,6 A |
| Rating current -10°C | 45 A |
| Rating current -5°C | 44,4 A |
| Rating current 0°C | 43,8 A |
| Rating current 5°C | 43,1 A |
| Rating current 10°C | 42,5 A |
| Rating current 15°C | 41,9 A |
| Rating current 20°C | 41,3 A |
| Rating current 25°C | 40,6 A |
| Rating current 30°C | 40 A |
| Rating current 35°C | 39,4 A |
| Rating current 40°C | 38,8 A |
| Rating current 45°C | 38,2 A |
| Rating current 50°C | 37,5 A |
| Rating current 55°C | 36,9 A |
| Rating current 60°C | 36,2 A |
| Current correction factors | |
| Correction factor of rating current for 2 devices placed side-by-side | 1 |
| Correction factor of rating current for 3 devices placed side-by-side | 0,95 |
| Correction factor of rating current for 4 and 5 devices placed side-by-side | 0,9 |
| Correction factor of rating current for 6 devices placed side-by-side | 0,85 |
| Frequency | |
| Frequency | 50 Hz |
| | |
| Selectivity | |
| Maximal rating current of downstream aM fuse for selectivity on short-circuit | 10 A |
| Maximal rating current of downstream gL fuse for selectivity on short-circuit | 20 A |
| Minimal rating current of upstream aM fuse for selectivity on short-circuit | 50 A |
| Minimal rating current of upstream gL fuse for selectivity on short-circuit | 63 A |
| Power | |
| Total power loss under IN | 11,1 W |
| Power loss per pole at In | 6,2 W |
| | |
| Tripping | |
| Protected against nuisance tripping | no |



| Endurance | |
|--|------------------|
| Electric endurance in number of cycles | 2000 |
| Number of mechanical operations | 1000 |
| Dimensions | |
| Depth of installed product | 68 mm |
| Height of installed product | 83 mm |
| Width of installed product | 35 mm |
| Installation, mounting | |
| Tightening torque | 2,1Nm |
| 360° product mounting position | yes |
| Connection | |
| Connection cross-section at output with screw, for flexible conductor | 1 / 16 mm² |
| Connection cross-section at output with screw, for massive conductor | 1 / 25 mm² |
| Connection cross-sect. flexible conductor | 1 / 16mm² |
| Connection cross-sect. rigid cable | 1 / 25mm² |
| Connection cross-section for rigid conductor, upstream terminals with screws | 1 / 25 mm² |
| Connection cross-section of the access with screws, with flexible conductor | 1 / 16 mm² |
| Type of connection | with screw |
| Equipment | |
| With interlocking device | yes |
| Standards | |
| Standard text | EN 61009-1 |
| European directive WEEE | concerned |
| Safety | |
| Protection index IP | IP20 |
| Residual current type | AC |
| Use conditions | |
| Operating temperature | -2540 °C |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Class of energy limitation I²t | 3 |
| Altitude | 2000 m |
| Air humidity protection | for all climates |
| Storage/transport temperature | -2570 °C |
| temperatur | |
| Temperature of calibration | 30 °C |
| | |