



AD190

RCBO Electronic 1M 1P 10kA C-32A 30mA AC Class

Technical characteristics

Architecture

| | |
|---------------------------|-------|
| Neutral position | right |
| Number of protected poles | 1 |
| Number of poles | 1 P |
| Type of pole | 1 P |
| Curve | C |

Functions

| | |
|----------------------------------|----|
| Concurrently switching N-neutral | No |
|----------------------------------|----|

Configuration

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

Main electrical features

| | |
|--|-------------|
| Rated short circuit breaking capacity I_{cn} AC according IEC60898-1 | 10 kA |
| Rated operational voltage U_e | 230 / 240 V |
| Frequency | 50 Hz |

Voltage

| | |
|---------------------------------|--------|
| Rated insulation voltage | 250 V |
| Max operating voltage | 253 V |
| Rated impulse withstand voltage | 4000 V |

Electric current

| | |
|---|-------------------|
| Rated residual operating current | 30 mA |
| Rated current | 32 A |
| Breaking and opening capacity | 6 kA |
| min/maxi threshold value of the AC thermal operation | 1.13 / 1.45 I_n |
| Magnetic regulating current | 5 / 10 I_n |
| Rated short circuit breaking capacity I_{cn} under 230V AC according IEC60898-1 | 10 kA |

Electric current / temperature

| | |
|----------------------|---------|
| Rating current -25°C | 40.06 A |
| Rating current -20°C | 39.39 A |
| Rating current -15°C | 38.72 A |
| Rating current -10°C | 38.03 A |
| Rating current -5°C | 37.33 A |
| Rating current 0°C | 36.62 A |

| | |
|---------------------|---------|
| Rating current 5°C | 35.89 A |
| Rating current 10°C | 35.14 A |
| Rating current 15°C | 34.39 A |
| Rating current 20°C | 33.61 A |
| Rating current 25°C | 32.81 A |
| Rating current 30°C | 32 A |
| Rating current 35°C | 31.16 A |
| Rating current 40°C | 30.31 A |
| Rating current 45°C | 29.42 A |
| Rating current 50°C | 28.51 A |
| Rating current 55°C | 27.57 A |
| Rating current 60°C | 26.6 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 |

Dimensions

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

Frequency

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

Power

| | |
|---------------------------|--------|
| Total power loss under IN | 9.63 W |
| Power loss per pole at In | 5.53 W |

Tripping

| | |
|-------------------------------------|----|
| Protected against nuisance tripping | No |
|-------------------------------------|----|

Endurance

| | |
|--|------|
| Electric endurance in number of cycles | 2000 |
| Number of mechanical operations | 1000 |

Installation, mounting

| | |
|-------------------|-------|
| Tightening torque | 2,1Nm |
|-------------------|-------|

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-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 |
|---|------------|

Standards

| | |
|-------------------------|--------------------------|
| Standard text | IEC 61009-1 ; EN 61009-1 |
| European directive WEEE | concerned |

Safety

| | |
|-----------------------|------|
| Protection index IP | IP20 |
| Residual current type | AC |
| REACH conform | No |
| RoHS conform | Yes |
| Halogen free | No |

Use conditions

| | |
|--|--------------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Class of energy limitation I²t | 3 |
| Altitude | 2000 m |
| Air humidity protection | Execution II |