



ADC116

**RCBO Electronic 1M 1P 10kA C-16A 30mA AC Class**

**Technical properties**

**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   | 16 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 | 22.23 A |
| Rating current -20°C | 21.74 A |
| Rating current -15°C | 21.23 A |
| Rating current -10°C | 20.72 A |
| Rating current -5°C  | 20.19 A |
| Rating current 0°C   | 19.64 A |

|                     |         |
|---------------------|---------|
| Rating current 5°C  | 19.08 A |
| Rating current 10°C | 18.51 A |
| Rating current 15°C | 17.91 A |
| Rating current 20°C | 17.3 A  |
| Rating current 25°C | 16.66 A |
| Rating current 30°C | 16 A    |
| Rating current 35°C | 15.38 A |
| Rating current 40°C | 14.75 A |
| Rating current 45°C | 14.13 A |
| Rating current 50°C | 13.5 A  |
| Rating current 55°C | 12.88 A |
| Rating current 60°C | 12.25 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  | 73 mm   |
| Height of installed product | 115 mm  |
| Width of installed product  | 17.8 mm |

#### Frequency

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

#### Power

|                           |        |
|---------------------------|--------|
| Total power loss under IN | 4.74 W |
| Power loss per pole at In | 2.88 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 mm <sup>2</sup> |
| Connection cross-section at output with screw, for massive conductor         | 1 / 25 mm <sup>2</sup> |
| Connection cross-section for rigid conductor, upstream terminals with screws | 1 / 25 mm <sup>2</sup> |

Connection cross-section of the access with  
screws, with flexible conductor

1 / 16 mm<sup>2</sup>

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**Standards**

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Standard text IEC 61009-1 ; EN 61009-1

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**Safety**

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Residual current type AC

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**Use conditions**

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Degree of pollution according to IEC 60664 /  
IEC 60947-2 2

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Class of energy limitation I<sup>2</sup>t 3

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Altitude 2000 m

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Air humidity protection Execution II