



AE956B

RCBO 1P+N 6kA C-6A 100mA AC Class

Technical Features

Architecture

| | |
|--------------|------|
| Type of pole | 1P+N |
| Curve | C |

Electric current

| | |
|---|---------------|
| Rated current | 6 A |
| Rated residual operating current I _{dn} | 100 mA |
| Rated current -25°C | 7.20 A |
| Rated current at -20°C | 7.10 A |
| Rated current -15°C | 7 A |
| Rated current -10°C | 6.90 A |
| Rated current -5°C | 6.80 A |
| Rated current at 0°C | 6.70 A |
| Rated current 5°C | 6.60 A |
| Rated current 10°C | 6.50 A |
| Rated current 15°C | 6.40 A |
| Rated current at 20°C | 6.20 A |
| Rated current 25°C | 6.10 A |
| Rated current 30°C | 6 A |
| Rated current 35°C | 5.90 A |
| Rated current at 40°C | 5.80 A |
| Rated current at 45°C | 5.70 A |
| Rated current at 50°C | 5.60 A |
| Rated current 55°C | 5.50 A |
| Rated current 60°C | 5.40 A |
| Correction factor of rating current for 2 devices placed side by side | 1 |
| Min./max. threshold value of the AC thermal operation | 1.13 - 1.45 A |
| 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 | 0.90 |
| Correction factor of rating current for 6 devices placed side by side | 0.85 |

Safety

| | |
|-------------------------------|------|
| Residual current type | AC |
| Ingress Protection (IP) class | IP20 |

Main electrical attributes

| | |
|---|------|
| Rated short-circuit breaking capacity I _{cn} AC according to IEC 60898-1 | 6 kA |
|---|------|

Connectivity

| | |
|--------------------|----------------|
| Type of connection | Screw terminal |
|--------------------|----------------|

Voltage

| | |
|---|-------|
| Rated insulation voltage U _i | 500 V |
|---|-------|

Electric current

| | |
|---|------|
| Rated service breaking capacity I _{cs} AC according to IEC 60898-1 | 6 kA |
|---|------|

Voltage

| | |
|--|-------------|
| Rated impulse withstand voltage U _{imp} | 4000 V |
| Max. operating voltage | 240 V |
| Rated operational voltage U _e | 240 - 240 V |
| Overvoltage category according to IEC 60947-1 | 3 |

Power

| | |
|---------------------------------------|--------|
| Total power loss under I _N | 1.90 W |
|---------------------------------------|--------|

Frequency

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

Use conditions

| | |
|---------------|--------|
| Max. Altitude | 2000 m |
|---------------|--------|

Installation, mounting

| | |
|---|----------------|
| Nominal tightening torque down terminal | 2.10 - 2.10 Nm |
| Nominal tightening torque top terminal | 2.10 - 2.10 Nm |

Use conditions

| | |
|---|---|
| Class of energy limitation I ² t | 3 |
|---|---|

Endurance

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

Connection

| | |
|-------------------------------|------------------------|
| Cross-section rigid conductor | 1 - 25 mm ² |
|-------------------------------|------------------------|

Installation, mounting

| | |
|---------------------------|----------------|
| Nominal tightening torque | 2.10 - 2.10 Nm |
|---------------------------|----------------|

Capacity

| | |
|-------------------|---|
| Number of modules | 2 |
|-------------------|---|

Installation, mounting

| | |
|---|----------------|
| Type of top connection for modular devices | Screw terminal |
| Type of bottom connection for modular devices | biconnect |

Dimensions

| | |
|--------|-------|
| Height | 83 mm |
| Width | 35 mm |
| Depth | 68 mm |

Use conditions

| | |
|--|------------------|
| Operating temperature | -25 - 40 °C |
| Storage/transport temperature | -25 - 70 °C |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Air humidity protection | For all climates |
