



MW110

MCB 1P 3kA C-10A 1M

Technical characteristics

Architecture

| | |
|------------------|-------------------------------|
| Neutral position | without neutral |
| Number of poles | 1 P |
| Type of pole | 1 P |
| Fixing mode | DIN rail type O (symmetrical) |
| Curve | C |

Functions

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

Configuration

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

Connectivity

| | |
|---|------------------|
| Top connection alignment for modular devices | Aligned terminal |
| Bottom connection alignment for modular devices | Aligned terminal |

Main electrical features

| | |
|------------------------------|-------------|
| Rated operational voltage Ue | 230 / 400 V |
| Type of supply voltage | AC |

Voltage

| | |
|---------------------------------|--------|
| Rated insulation voltage | 500 V |
| Max operating voltage | 415 V |
| Rated impulse withstand voltage | 4000 V |

Electric current

| | |
|--|----------------------------|
| Rated current | 10 A |
| 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 | 3 kA |
| Rated short circuit breaking capacity I _{cn} under 400V AC according IEC60898-1 | 3 kA |

Electric current / temperature

| | |
|----------------------|--------|
| Rating current -25°C | 13.4 A |
| Rating current -20°C | 13.1 A |
| Rating current -15°C | 12.8 A |

| | |
|----------------------|---------|
| Rating current -10°C | 12.54 A |
| Rating current -5°C | 12.21 A |
| Rating current 0°C | 11.91 A |
| Rating current 5°C | 11.61 A |
| Rating current 10°C | 11.31 A |
| Rating current 15°C | 11.01 A |
| Rating current 20°C | 10.72 A |
| Rating current 25°C | 10.42 A |
| Rating current 30°C | 10 A |
| Rating current 35°C | 9.82 A |
| Rating current 40°C | 9.52 A |
| Rating current 45°C | 9.22 A |
| Rating current 50°C | 9 A |
| Rating current 55°C | 8.63 A |
| Rating current 60°C | 8.33 A |
| Rating current 65°C | 8.03 A |
| Rating current 70°C | 7.73 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 |
| Width of installed product | 17.5 mm |

Power

| | |
|---|--------|
| Maximum power loss per pole according to the product standard | 3 W |
| Power loss per pole at In | 1.63 W |

Endurance

| | |
|--|-------|
| Electric endurance in number of cycles | 4000 |
| Number of mechanical operations | 20000 |

Installation, mounting

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|---|------------|
| Type of top connection for modular devices | with screw |
| Tightening torque | 2,8Nm |
| Type of Bottom Connection for modular devices | Blconnect |

Connection

| | |
|---|------------------------|
| Connection cross-section at output with screw, for flexible conductor | 1 / 25 mm ² |
| Connection cross-section at output with screw, for massive conductor | 1 / 35 mm ² |

| | |
|--|------------------------|
| Connection cross-section for rigid conductor, upstream terminals with screws | 1 / 35 mm ² |
|--|------------------------|

| | |
|---|------------------------|
| Connection cross-section of the access with screws, with flexible conductor | 1 / 25 mm ² |
|---|------------------------|

Equipment

| | |
|---------------------|----|
| Can be accessorized | No |
|---------------------|----|

Standards

| | |
|---------------|-------------|
| Standard text | IEC 60898-1 |
|---------------|-------------|

| | |
|-------------------------|-----------|
| European directive WEEE | concerned |
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Safety

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|---------------------|------|
| Protection index IP | IP20 |
|---------------------|------|

Use conditions

| | |
|-----------------------|-------------|
| Operating temperature | -25...70 °C |
|-----------------------|-------------|

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

| | |
|----------|--------|
| Altitude | 2000 m |
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|-------------------------------|-------------|
| Storage/transport temperature | -25...80 °C |
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temperatur

| | |
|----------------------------|-------|
| Temperature of calibration | 30 °C |
|----------------------------|-------|