



MSN250



**MCB 2P 6kA C-50A 2M**

**Technical characteristics**

**Architecture**

|                  |                               |
|------------------|-------------------------------|
| Neutral position | without neutral               |
| Number of poles  | 2 P                           |
| Type of pole     | 2 P                           |
| Fixing mode      | DIN rail type O (symmetrical) |
| Curve            | C                             |

**Functions**

Concurrently switching N-neutral

**Configuration**

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

**Connectivity**

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

**Main electrical features**

|                                 |       |
|---------------------------------|-------|
| Rated operational voltage $U_e$ | 415 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                                                                      | 50 A              |
| Rated service breaking capacity $I_{cs}$ AC according IEC 60898-1                  | 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 400V AC according IEC60898-1  | 6 kA              |
| Rated short circuit breaking capacity $I_{cn}$ under 415V AC according IEC 60898-1 | 6 kA              |

**Electric current / temperature**

|                      |         |
|----------------------|---------|
| Rating current -25°C | 67,46 A |
| Rating current -20°C | 66,02 A |
| Rating current -15°C | 64,58 A |
| Rating current -10°C | 63,69 A |
| Rating current -5°C  | 61,71 A |
| Rating current 0°C   | 60,27 A |

|                                                                              |                        |
|------------------------------------------------------------------------------|------------------------|
| Rating current 30°C                                                          | 50 A                   |
| Rating current 35°C                                                          | 50,21 A                |
| Rating current 40°C                                                          | 48,78 A                |
| Rating current 45°C                                                          | 47,34 A                |
| Rating current 50°C                                                          | 47 A                   |
| Rating current 55°C                                                          | 44,46 A                |
| Rating current 60°C                                                          | 43,03 A                |
| Rating current 65°C                                                          | 41,59 A                |
| Rating current 70°C                                                          | 40,15 A                |
| <b>Current correction factors</b>                                            |                        |
| 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                   |
| <b>Dimensions</b>                                                            |                        |
| Depth of installed product                                                   | 70 mm                  |
| Height of installed product                                                  | 83 mm                  |
| Width of installed product                                                   | 35 mm                  |
| <b>Frequency</b>                                                             |                        |
| Frequency                                                                    | 50 to 60 Hz            |
| <b>Power</b>                                                                 |                        |
| Maximum power loss per pole according to the product standard                | 9 W                    |
| Total power loss under IN                                                    | 9,2 W                  |
| Power loss per pole at In                                                    | 4,85 W                 |
| <b>Endurance</b>                                                             |                        |
| Electric endurance in number of cycles                                       | 4000                   |
| Number of mechanical operations                                              | 20000                  |
| <b>Installation, mounting</b>                                                |                        |
| Type of top connection for modular devices                                   | with screw             |
| Tightening torque                                                            | 2,8Nm                  |
| Type of bottom rail clip for modular devices                                 | plastic                |
| Type of Bottom Connection for modular devices                                | Blconnect              |
| Top removability for modular devices                                         |                        |
| Bottom removability for modular devices                                      |                        |
| <b>Connection</b>                                                            |                        |
| Connection cross-section at output with screw, for flexible conductor        | 1 / 25 mm <sup>2</sup> |
| Connection cross-section at output with screw, for massive conductor         | 1 / 35 mm <sup>2</sup> |
| Connection cross-section for rigid conductor, upstream terminals with screws | 1 / 35 mm <sup>2</sup> |
| Connection cross-section of the access with screws, with flexible conductor  | 1 / 25 mm <sup>2</sup> |
| Downstream cage clamp delivery status                                        | opened                 |
| Upstream cage clamp delivery status                                          | opened                 |

Subject to technical modifications

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**Equipment**

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Can be accessorized

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With transparent product label holder

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**Standards**

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|                         |                               |
|-------------------------|-------------------------------|
| Standard text           | IEC 60898-1<br>AS/NZS 60898-1 |
| European directive WEEE | not concerned                 |

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**Safety**

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

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**Use conditions**

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

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|                                                             |   |
|-------------------------------------------------------------|---|
| Degree of pollution according to IEC 60664 /<br>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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|                               |             |
|-------------------------------|-------------|
| Storage/transport temperature | -25...80 °C |
|-------------------------------|-------------|

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**temperatur**

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