



MSN320

**MCB 3P 6kA C-6A 3M**

**Technical Features**

**Electric current**

|                       |       |
|-----------------------|-------|
| Rated current         | 6 A   |
| Rated current -15°C   | 7.3 A |
| Rated current -10°C   | 7.1 A |
| Rated current -5°C    | 7 A   |
| Rated current at 0°C  | 6.8 A |
| Rated current 5°C     | 6.7 A |
| Rated current 10°C    | 6.6 A |
| Rated current 15°C    | 6.4 A |
| Rated current at 20°C | 6.3 A |
| Rated current 25°C    | 6.1 A |
| Rated current 30°C    | 6 A   |
| Rated current 35°C    | 5.8 A |
| Rated current at 40°C | 5.7 A |
| Rated current at 45°C | 5.5 A |
| Rated current at 50°C | 5.3 A |
| Rated current 55°C    | 5.1 A |
| Rated current 60°C    | 5 A   |
| Rated current 65°C    | 4.8 A |
| Rated current 70°C    | 4.6 A |

**Architecture**

|              |    |
|--------------|----|
| Type of pole | 3P |
| Curve        | C  |

**Capacity**

|                   |   |
|-------------------|---|
| Number of modules | 3 |
|-------------------|---|

**Main electrical attributes**

|   |      |
|---|------|
| Rated short-circuit breaking capacity I <sub>cn</sub> AC according to IEC 60898-1 | 6 kA |
|---|------|

**Installation, mounting**

|   |                |
|---|----------------|
| Nominal tightening torque top terminal  | 2.80 - 2.80 Nm |
| Nominal tightening torque down terminal | 2.80 - 2.80 Nm |

**Voltage**

|  |             |
|--|-------------|
| Rated operational voltage U <sub>e</sub>         | 415 - 415 V |
| Type voltage supply                              | AC          |
| Rated insulation voltage U <sub>i</sub>          | 500 V       |
| Rated impulse withstand voltage U <sub>imp</sub> | 4000 V      |

**Frequency**

|           |            |
|-----------|------------|
| Frequency | 50 - 60 Hz |
|-----------|------------|

**Connection**

|  |                        |
|--|------------------------|
| Cross-section of input and output with screws, for massive conductors  | 1 - 35 mm <sup>2</sup> |
| Cross-section of input and output with screws, for flexible conductors | 1 - 25 mm <sup>2</sup> |
| Cross-section of input with screws, for flexible conductors            | 1 - 25 mm <sup>2</sup> |
| Cross-section of input with screws, for massive conductors             | 1 - 35 mm <sup>2</sup> |
| Cross-section flexible conductor                                       | 1 - 25 mm <sup>2</sup> |
| Cross-section rigid conductor  | 1 - 35 mm <sup>2</sup> |

**Installation, mounting**

|   |                |
|---|----------------|
| Nominal tightening torque                     | 2.80 - 2.80 Nm |
| Type of bottom connection for modular devices | biconnect      |
| Type of top connection for modular devices    | Screw terminal |
| 360° mounting position possible               | Yes            |

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**Safety**

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|                               |      |
|-------------------------------|------|
| Ingress Protection (IP) class | IP20 |
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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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|                         |                  |
|-------------------------|------------------|
| Air humidity protection | For all climates |
|-------------------------|------------------|

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|                       |             |
|-----------------------|-------------|
| Operating temperature | -25 - 70 °C |
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**Power**

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|                           |       |
|---------------------------|-------|
| Total power loss under IN | 3.8 W |
|---------------------------|-------|

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**Connectivity**

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

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

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|   |                  |
|---|------------------|
| Down connection alignment for modular devices | Aligned terminal |
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**Dimensions**

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|        |       |
|--------|-------|
| Height | 83 mm |
|--------|-------|

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|       |          |
|-------|----------|
| Width | 52.50 mm |
|-------|----------|

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|       |       |
|-------|-------|
| Depth | 70 mm |
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**Sustainability**

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|              |     |
|--------------|-----|
| RoHS conform | Yes |
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