



MCN220A

## MCB 2P 6kA C-20A 2M

### Technical properties

#### Architecture

|                           |     |
|---------------------------|-----|
| Number of protected poles | 2   |
| Number of poles           | 2 P |
| Type of pole              | 2 P |
| Curve                     | C   |

#### Functions

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

#### 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 short circuit breaking capacity $I_{cn}$ AC according IEC60898-1 | 6 kA     |
| Rated operational voltage $U_e$  | 400 V    |
| Type of supply voltage   | AC       |
| Frequency  | 50/60 Hz |

#### Voltage

|                                 |        |
|---------------------------------|--------|
| Rated insulation voltage        | 500 V  |
| Rated impulse withstand voltage | 4000 V |

#### Electric current

|   |                   |
|---|-------------------|
| Rated current   | 20 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 ultimate short-circuit breaking capacity $I_{cu}$ under 415V AC IEC 60947-2 | 6 kA              |

#### Electric current / temperature

|                      |         |
|----------------------|---------|
| Rating current -25°C | 28.03 A |
|----------------------|---------|

|                      |         |
|----------------------|---------|
| Rating current -20°C | 27.39 A |
| Rating current -15°C | 26.74 A |
| Rating current -10°C | 26.41 A |
| Rating current -5°C  | 25.45 A |
| Rating current 0°C   | 24.81 A |
| Rating current 5°C   | 24.17 A |
| Rating current 10°C  | 23.52 A |
| Rating current 15°C  | 22.88 A |
| Rating current 20°C  | 22.23 A |
| Rating current 25°C  | 21.59 A |
| Rating current 30°C  | 20 A    |
| Rating current 35°C  | 20.3 A  |
| Rating current 40°C  | 19.66 A |
| Rating current 45°C  | 19.01 A |
| Rating current 50°C  | 19 A    |
| Rating current 55°C  | 17.73 A |
| Rating current 60°C  | 17.08 A |
| Rating current 65°C  | 16.44 A |
| Rating current 70°C  | 15.79 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 |
| Correction factor of magnetic tripping with 100 Hz                          | 1.1  |
| Correction factor of magnetic tripping with 200 Hz                          | 1.2  |
| Correction factor of magnetic tripping with 400 Hz                          | 1.5  |
| Correction factor of magnetic tripping with 60 Hz                           | 1    |

#### Dimensions

|                             |       |
|-----------------------------|-------|
| Depth of installed product  | 70 mm |
| Height of installed product | 83 mm |
| Width of installed product  | 35 mm |

#### Frequency

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

#### Power

|                           |        |
|---------------------------|--------|
| Total power loss under IN | 4.35 W |
| Power loss per pole at In | 2.18 W |

#### Endurance

|  |      |
|--|------|
| Electric endurance in number of cycles | 4000 |
|--|------|

Subject to technical modifications

|  |                        |
|--|------------------------|
| 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 Connection for modular devices                                    | Blconnect              |
| <b>Connection</b>  |                        |
| Connection cross-sect. flexible conductor  | 1 / 25mm <sup>2</sup>  |
| Connection cross-sect. rigid cable   | 1 / 35mm <sup>2</sup>  |
| Connection cross-section of input and output with screws, for massive conductors | 1 / 35 mm <sup>2</sup> |
| Connection cross section of access and exit with screws, for flexible conductor  | 1 / 25 mm <sup>2</sup> |
| Type of connection   | with screw             |
| <b>Standards</b>   |                        |
| Standard text  | EN 60898-1             |
| <b>Safety</b>  |                        |
| REACH conform  | No                     |
| RoHS conform   | Yes                    |
| Halogen free   | No                     |
| <b>Use conditions</b>  |                        |
| Operating temperature  | -25...70 °C            |
| Degree of pollution according to IEC 60664 / IEC 60947-2                         | 2                      |
| Class of energy limitation I <sup>2</sup> t                                      | 3                      |
| Altitude   | 2000 m                 |
| Air humidity protection  | for all climates       |
| Storage/transport temperature  | -25...80 °C            |
| <b>Identification</b>  |                        |
| Aesthetic for B.G. Protection devices  | PD                     |