



## MCB 3P 6kA C-20A 3M

### Technical characteristics

#### Architecture

|                           |                 |
|---------------------------|-----------------|
| Neutral position          | without neutral |
| Number of protected poles | 3               |
| Number of poles           | 3 P             |
| Type of pole              | 3 P             |
| Curve                     | C               |

#### Functions

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

#### Configuration

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

#### 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 $U_e$  | 415 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              |

#### Electric current / temperature

|                      |        |
|----------------------|--------|
| Rating current -25°C | 25.3 A |
| Rating current -20°C | 24.9 A |

|                      |        |
|----------------------|--------|
| Rating current -15°C | 24.4 A |
| Rating current -10°C | 24 A   |
| Rating current -5°C  | 23.5 A |
| Rating current 0°C   | 23.1 A |
| Rating current 5°C   | 22.6 A |
| Rating current 10°C  | 22.1 A |
| Rating current 15°C  | 21.6 A |
| Rating current 20°C  | 21.1 A |
| Rating current 25°C  | 20.5 A |
| Rating current 30°C  | 20 A   |
| Rating current 35°C  | 19.4 A |
| Rating current 40°C  | 18.7 A |
| Rating current 45°C  | 18 A   |
| Rating current 50°C  | 17.3 A |
| Rating current 55°C  | 16.6 A |
| Rating current 60°C  | 15.8 A |
| Rating current 65°C  | 15 A   |
| Rating current 70°C  | 14.1 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       | 0.8 |
| Correction factor of rating current for 4 and 5 devices placed side-by-side | 0.7 |
| Correction factor of rating current for 6 devices placed side-by-side       | 0.6 |
| 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 | 84.6 mm |
| Width of installed product  | 52.5 mm |

#### Frequency

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

#### Power

|                           |        |
|---------------------------|--------|
| Total power loss under IN | 8.86 W |
| Power loss per pole at In | 3.07 W |

#### Endurance

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

**Installation, mounting**

|   |            |
|---|------------|
| Type of top connection for modular devices    | with screw |
| Tightening torque                             | 2,8Nm      |
| Type of top rail clip for modular devices     | NA         |
| Type of bottom rail clip for modular devices  | plastic    |
| Type of Bottom Connection for modular devices | Blconnect  |
| Top removability for modular devices          | No         |
| Bottom removability for modular devices       | Yes        |

**Connection**

|  |                        |
|--|------------------------|
| 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             |

**Equipment**

|                                       |     |
|---------------------------------------|-----|
| Quick connect                         | no  |
| With transparent product label holder | Yes |

**Standards**

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

**Safety**

|                     |      |
|---------------------|------|
| Protection index IP | IP20 |
| REACH conform       | No   |
| RoHS conform        | Yes  |
| Halogen free        | No   |

**Use conditions**

|  |                  |
|--|------------------|
| 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      |