



**RCD/MCB, 20A, 100mA, miniature circuit-breaker trip curve C, 2 p,  
residual current circuit-breaker trip characteristic: A**

**Part no.** PKPM2-20/2/C/01-A  
**Article no.** 108120

Similar to illustration

### Delivery program

|                                                    |                |    |                                                        |
|----------------------------------------------------|----------------|----|--------------------------------------------------------|
| Basic function                                     |                |    | Combined RCD/MCB devices                               |
| Number of poles                                    |                |    | 2 pole                                                 |
| Tripping characteristic                            |                |    | C                                                      |
| Application                                        |                |    | Switchgear for residential and commercial applications |
| Rated current                                      | $I_n$          | A  | 20                                                     |
| Rated switching capacity according to IEC/EN 61009 |                | kA | 10                                                     |
| Rated fault current                                | $I_{\Delta N}$ | A  | 0.1                                                    |
| Type                                               |                |    | Type A                                                 |
| Tripping                                           |                | A  | non-delayed                                            |
| Product range                                      |                |    | PKPM2                                                  |
| Sensitivity                                        |                |    | Pulse-current sensitive                                |
| Impulse withstand current                          |                |    | Partly surge-proof 250 A                               |

### Technical data

#### Electrical

|             |  |  |                         |
|-------------|--|--|-------------------------|
| Sensitivity |  |  | Pulse-current sensitive |
|-------------|--|--|-------------------------|

### Design verification as per IEC/EN 61439

|                                                                                                                        |            |    |                                                                    |
|------------------------------------------------------------------------------------------------------------------------|------------|----|--------------------------------------------------------------------|
| Technical data for design verification                                                                                 |            |    |                                                                    |
| Rated operational current for specified heat dissipation                                                               | $I_n$      | A  | 20                                                                 |
| Heat dissipation per pole, current-dependent                                                                           | $P_{vid}$  | W  | 0                                                                  |
| Equipment heat dissipation, current-dependent                                                                          | $P_{vid}$  | W  | 5.9                                                                |
| Static heat dissipation, non-current-dependent                                                                         | $P_{vs}$   | W  | 0                                                                  |
| Heat dissipation capacity                                                                                              | $P_{diss}$ | W  | 0                                                                  |
| Operating ambient temperature min.                                                                                     |            | °C | -25                                                                |
| Operating ambient temperature max.                                                                                     |            | °C | 40                                                                 |
|                                                                                                                        |            |    | 0                                                                  |
| IEC/EN 61439 design verification                                                                                       |            |    |                                                                    |
| 10.2 Strength of materials and parts                                                                                   |            |    |                                                                    |
| 10.2.2 Corrosion resistance                                                                                            |            |    |                                                                    |
| 10.2.3.1 Verification of thermal stability of enclosures                                                               |            |    | Meets the product standard's requirements.                         |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat                                             |            |    | Meets the product standard's requirements.                         |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects |            |    | Meets the product standard's requirements.                         |
| 10.2.4 Resistance to ultra-violet (UV) radiation                                                                       |            |    | Meets the product standard's requirements.                         |
| 10.2.5 Lifting                                                                                                         |            |    | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact                                                                                               |            |    | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions                                                                                                    |            |    | Meets the product standard's requirements.                         |
| 10.3 Degree of protection of ASSEMBLIES                                                                                |            |    | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances                                                                                 |            |    | Meets the product standard's requirements.                         |
| 10.5 Protection against electric shock                                                                                 |            |    | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components                                                                 |            |    | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections                                                                      |            |    | Is the panel builder's responsibility.                             |
| 10.8 Connections for external conductors                                                                               |            |    | Is the panel builder's responsibility.                             |
| 10.9 Insulation properties                                                                                             |            |    |                                                                    |

|                                                          |  |                                                                                                                                  |
|----------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|
| 10.9.2 Power-frequency electric strength                 |  | Is the panel builder's responsibility.                                                                                           |
| 10.9.3 Impulse withstand voltage                         |  | Is the panel builder's responsibility.                                                                                           |
| 10.9.4 Testing of enclosures made of insulating material |  | Is the panel builder's responsibility.                                                                                           |
| 10.10 Temperature rise                                   |  | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating                               |  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.12 Electromagnetic compatibility                      |  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.13 Mechanical function                                |  | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |

## Technical data ETIM 6.0

|                                                                                                                                                                                                 |  |    |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|-------|
| Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)                                                                                                                |  |    |       |
| Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / MCB/RCCB combination (ecl@ss8.1-27-14-22-07 [AFZ810012]) |  |    |       |
| Number of poles (total)                                                                                                                                                                         |  |    | 2     |
| Number of protected poles                                                                                                                                                                       |  |    | 2     |
| Nominal rated voltage                                                                                                                                                                           |  | V  | 230   |
| Nominal rated current                                                                                                                                                                           |  | A  | 20    |
| Rated fault current                                                                                                                                                                             |  | A  | 0.1   |
| Leakage current type                                                                                                                                                                            |  |    | A     |
| Current limiting class                                                                                                                                                                          |  |    | 3     |
| Rated short-circuit breaking capacity EN 60898                                                                                                                                                  |  | kA | 10    |
| Rated short-circuit breaking capacity IEC 60947-2                                                                                                                                               |  | kA | 0     |
| Frequency                                                                                                                                                                                       |  |    | 50 Hz |
| Release characteristic                                                                                                                                                                          |  |    | C     |
| Concurrently switching N-neutral                                                                                                                                                                |  |    | No    |
| Over voltage category                                                                                                                                                                           |  |    | 3     |
| Pollution degree                                                                                                                                                                                |  |    | 2     |
| Width in number of modular spacings                                                                                                                                                             |  |    | 2     |
| Built-in depth                                                                                                                                                                                  |  | mm | 70    |
| Suitable for flush-mounted installation                                                                                                                                                         |  |    | No    |
| Degree of protection (IP)                                                                                                                                                                       |  |    | IP20  |
| Surge current capacity                                                                                                                                                                          |  | kA | 0.25  |
| Voltage type                                                                                                                                                                                    |  |    | AC    |
| Antinuisance tripping version                                                                                                                                                                   |  |    | No    |