

# Product datasheet

Specifications



Molded case circuit breaker,  
PowerPacT 4, 3P, Icu 36kA, TMD  
thermal magnetic trip unit, 250A  
rating

PP42503X

EAN Code: 5018934030388

## Main

|                                                      |                                 |
|------------------------------------------------------|---------------------------------|
| Range of product                                     | PowerPacT 4                     |
| Product or component type                            | Circuit breaker                 |
| Device application                                   | Distribution                    |
| poles description                                    | 3P                              |
| [In] rated current                                   | 250 A at 40 °C                  |
| [Ue] rated operational voltage                       | 415 V AC 50/60 Hz               |
| Suitability for isolation                            | Yes conforming to BS EN 60947-2 |
| Utilisation category                                 | Category A                      |
| [Icu] rated ultimate short-circuit breaking capacity | 36 kA Icu at 415 V AC 50/60 Hz  |
| Performance level                                    | F                               |
| Trip unit name                                       | TM-D                            |
| Trip unit technology                                 | Thermal-magnetic                |
| Trip unit protection functions                       | LI                              |
| Control type                                         | Toggle                          |
| Circuit breaker mounting mode                        | Panel-mounted                   |

## Complementary

|                                                           |                                                                                      |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage                             | 800 V                                                                                |
| [Uimp] rated impulse withstand voltage                    | 8 kV                                                                                 |
| [Ics] rated service short-circuit breaking capacity       | 36 kA at 415 V AC 50/60 Hz                                                           |
| Mechanical durability                                     | 20000 cycles                                                                         |
| Electrical durability                                     | 20000 cycles at 440 V In/2<br>10000 cycles at 440 V In                               |
| Power dissipation per pole                                | 18.75 W                                                                              |
| Mounting support                                          | Backplate                                                                            |
| Mounting position                                         | Horizontal and vertical                                                              |
| Number of modules                                         | 3 module(s)35 mm                                                                     |
| Protection type                                           | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic) |
| Trip unit rating                                          | 250 A at 40 °C                                                                       |
| Long-time pick-up adjustment type Ir (thermal protection) | Fixed                                                                                |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                                        |                                          |
|--------------------------------------------------------|------------------------------------------|
| [Ir] long-time protection pick-up adjustment range     | 0.7...1 x In                             |
| Long-time protection delay adjustment type tr          | Fixed                                    |
| Instantaneous protection pick-up adjustment type li    | Adjustable                               |
| [Ii] instantaneous protection pick-up adjustment range | 5...10 x In                              |
| Earth-leakage protection                               | Without                                  |
| Contact position indicator                             | Yes                                      |
| Width                                                  | 105 mm                                   |
| Depth                                                  | 86 mm                                    |
| Height                                                 | 161 mm                                   |
| Net weight                                             | 2.4 kg                                   |
| product destination                                    | 250 A panelboard<br>400/630 A panelboard |
| Colour                                                 | Grey                                     |

## Environment

|                                       |                                                            |
|---------------------------------------|------------------------------------------------------------|
| Standards                             | BS EN 60947-2                                              |
| Electrical shock protection class     | Class II                                                   |
| Pollution degree                      | 3 conforming to EN/IEC 60664-1                             |
| IP degree of protection               | IP40 conforming to EN/IEC 60529                            |
| IK degree of protection               | IK07 conforming to EN/IEC 62262                            |
| Ambient air temperature for operation | -25...70 °C                                                |
| ambient air temperature for storage   | -50...85 °C                                                |
| Operating altitude                    | 0...2000 m without derating<br>2000...5000 m with derating |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 11.5 cm  |
| Package 1 Width              | 25.5 cm  |
| Package 1 Length             | 25.5 cm  |
| Package 1 Weight             | 3.562 kg |
| Unit Type of Package 2       | PAM      |
| Number of Units in Package 2 | 84       |
| Package 2 Height             | 99 cm    |
| Package 2 Width              | 100 cm   |
| Package 2 Length             | 120 cm   |
| Package 2 Weight             | 319.2 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|