



HET200DR

**Moulded Case Circuit Breaker h3+ P250 TM ADJ 3P3D 200A 70kA FTC**

**Technical properties**

**Architecture**

|                           |                 |
|---------------------------|-----------------|
| Type of order             | Toggle          |
| Neutral position          | without neutral |
| Number of protected poles | 3               |
| Number of poles           | 3 P             |
| Type of pole              | 3P3D            |
| Type of case              | Fixed built-in  |

**Functions**

|  |        |
|--|--------|
| Complete device with protection unit   | Yes    |
| Reversing switch                       | No     |
| Version as main switch                 | Yes    |
| Version as emergency stop installation | No     |
| Version as safety switch               | No     |
| Version as maintenance-/service switch | Yes    |
| Trip Unit                              | TM A/A |
| Integrated earth fault protection      | No     |

**Controls and indicators**

|                        |    |
|------------------------|----|
| Motor drive integrated | No |
|------------------------|----|

**Main electrical features**

|                              |             |
|------------------------------|-------------|
| Rated operational voltage Ue | 220 / 690 V |
| Type of supply voltage       | AC          |
| Frequency                    | 50/60 Hz    |

**Voltage**

|                                 |       |
|---------------------------------|-------|
| Rated insulation voltage        | 800 V |
| Rated impulse withstand voltage | 8 kV  |
| With under voltage release      | No    |

**Electric current**

|  |                |
|--|----------------|
| Rated current  | 200 A          |
| Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 | 6 kA           |
| Thermal protection nob setting xIN   | 0.63 / 0.8 / 1 |
| Rating current 10°C according to IEC 60947                                   | 263.8 A        |
| Rating current 15°C according to IEC 60947                                   | 256.7 A        |
| Rating current 20°C according to IEC 60947                                   | 249.4 A        |
| Rating current 25°C according to IEC 60947                                   | 241.9 A        |

|  |                   |
|--|-------------------|
| Rating current 30°C according to IEC 60947                                   | 234.1 A           |
| Rating current 35°C according to IEC 60947                                   | 226.1 A           |
| Rating current 40°C according to IEC 60947                                   | 217.7 A           |
| Rating current 45°C according to IEC 60947                                   | 209 A             |
| Rating current 50°C according to IEC 60947                                   | 200 A             |
| Rating current 55°C according to IEC 60947                                   | 190.5 A           |
| Rating current 60°C according to IEC 60947                                   | 180.5 A           |
| Rating current 65°C according to IEC 60947                                   | 170 A             |
| Rating current 70°C according to IEC 60947                                   | 158.7 A           |
| Rated service breaking capacity Ics under 660V AC according IEC 60947-2      | 6 kA              |
| Breaking capacity on 1 pole for IT 230V NF 60947-2                           | 6 kA              |
| Breaking capacity on 1 pole for IT 400V NF 60947-2                           | 6 kA              |
| Breaking capacity on 1 pole for IT 415V NF 60947-2                           | 6 kA              |
| Breaking capacity on 1 pole for IT 690V NF 60947-2                           | 4.25 kA           |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 85 kA             |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 85 kA             |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 70 kA             |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 70 kA             |
| Range of the thermal adjustment  | 125 / 160 / 200 A |
| Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2  | 85 kA             |
| Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 | 85 kA             |
| Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 | 70 kA             |
| Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 | 6 kA              |
| <b>Dimensions</b>  |                   |
| Depth of installed product   | 97 mm             |
| Height of installed product  | 165 mm            |
| Width of installed product   | 105 mm            |
| <b>Frequency</b>   |                   |
| Frequency  | 50 to 60 Hz       |
| <b>Power</b>   |                   |
| Power loss per pole at 0.63*In   | 4.69 W            |
| Power loss per pole at 0.8*In  | 7.68 W            |
| Total power loss at 0.63*In  | 14.06 W           |
| Total power loss at 0.8*In   | 23.04 W           |
| Total power loss under IN  | 36 W              |
| Power loss per pole at In  | 12 W              |
| <b>Tripping</b>  |                   |

Subject to technical modifications

|   |                             |
|---|-----------------------------|
| Short-time delayed tripping                             | No                          |
| <b>Endurance</b>  |                             |
| Electric endurance in number of cycles                  | 10000                       |
| Number of mechanical operations                         | 40000                       |
| <b>Cover, door</b>                                      |                             |
| Interlockable   | Yes                         |
| <b>Installation, mounting</b>                           |                             |
| Tightening torque                                       | 12Nm                        |
| DIN rail mounting with optional adaptor                 | No                          |
| Suitable for front mounting center                      | No                          |
| Suitable for front mounting                             | No                          |
| Suitable for ground mounting                            | Yes                         |
| <b>Connection</b>                                       |                             |
| Connection cross-sect. flexible conductor               | 35 / 150mm <sup>2</sup>     |
| Connection cross-sect. rigid cable                      | 35 / 185mm <sup>2</sup>     |
| Connection  | Front connection            |
| Type of connection                                      | Terminal                    |
| <b>Protection</b>                                       |                             |
| Instantaneous protection (Ii): type                     | without                     |
| <b>Cable</b>  |                             |
| Cable Material  | Cu / Al                     |
| <b>Settings</b>   |                             |
| Range of the magnetic adjustment                        | 1200 / 1600 / 2000 / 2400 A |
| Magnetic protection nob setting xIN                     | 6 / 8 / 10 / 12             |
| <b>Equipment</b>  |                             |
| Number of auxiliary contacts as normally closed contact | 0                           |
| Number of auxiliary contacts as normally open contact   | 0                           |
| Number of auxiliary contacts as change-over contact     | 0                           |
| Motor drive optional                                    | Yes                         |
| Can be accessorized                                     | Yes                         |
| <b>Use cases</b>  |                             |
| Category of use   | A                           |
| <b>Use</b>  |                             |
| Vibrations and shocks withstand                         | IEC 68068-2-52 Test FC      |
| <b>Standards</b>  |                             |
| Standard text   | IEC 60947-2                 |
| <b>Safety</b>   |                             |

|               |     |
|---------------|-----|
| REACH conform | Yes |
| RoHS conform  | Yes |
| Halogen free  | No  |

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**Use conditions**

|  |                                    |
|--|------------------------------------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3                                  |
| Altitude   | 2000 m                             |
| Air humidity protection                                  | 95%HR 55°C sev Kn (IEC 68-2-30/52) |

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**temperatur**

|                            |       |
|----------------------------|-------|
| Temperature of calibration | 50 °C |
|----------------------------|-------|