



HET251JR

**Moulded Case Circuit Breaker h3+ P250 LSI 4P4D N0-50-100% 250A 70kA FTC**

**Technical properties**

**Architecture**

|                           |                  |
|---------------------------|------------------|
| Type of order             | Toggle           |
| Neutral position          | left             |
| Number of protected poles | 4                |
| Number of poles           | 4 P              |
| Type of pole              | 4P4D N:0/50/100% |
| 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                                      | LSI |
| With integrated earth leakage fault protection | No  |
| Concurrently switching N-neutral               | Yes |

**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  | 250 A  |
| Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2     | 6 kA   |
| Rated short-time withstand current Icw t=0.4S 220-240 V AC according IEC 60947-2 | 2.5 kA |
| Rated short-time withstand current Icw t=0.4S 380-415 V AC according IEC 60947-2 | 2.5 kA |

|   |             |
|---|-------------|
| Rated short-time withstand current I <sub>cs</sub><br>t=0.4S 660-690 V AC according IEC 60947-2 | 2.5 kA      |
| Rating current 10°C according to IEC 60947  | 250 A       |
| Rating current 15°C according to IEC 60947  | 250 A       |
| Rating current 20°C according to IEC 60947  | 250 A       |
| Rating current 25°C according to IEC 60947  | 250 A       |
| Rating current 30°C according to IEC 60947  | 250 A       |
| Rating current 35°C according to IEC 60947  | 250 A       |
| Rating current 40°C according to IEC 60947  | 250 A       |
| Rating current 45°C according to IEC 60947  | 250 A       |
| Rating current 50°C according to IEC 60947  | 250 A       |
| Rating current 55°C according to IEC 60947  | 250 A       |
| Rating current 60°C according to IEC 60947  | 240 A       |
| Rating current 65°C according to IEC 60947  | 220 A       |
| Rating current 70°C according to IEC 60947  | 200 A       |
| Rated service breaking capacity I <sub>cs</sub> under<br>660V AC according IEC 60947-2          | 6 kA        |
| Breaking capacity on 1 pole for IT 230V NF<br>60947-2   | 2.5 kA      |
| Breaking capacity on 1 pole for IT 400V NF<br>60947-2   | 2.5 kA      |
| Breaking capacity on 1 pole for IT 415V NF<br>60947-2   | 2.5 kA      |
| Rated ultimate short-circuit breaking capa-<br>city I <sub>cu</sub> under 230V AC IEC 60947-2   | 85 kA       |
| Rated ultimate short-circuit breaking capa-<br>city I <sub>cu</sub> under 240V AC IEC 60947-2   | 85 kA       |
| Rated ultimate short-circuit breaking capa-<br>city I <sub>cu</sub> under 400V AC IEC 60947-2   | 70 kA       |
| Rated ultimate short-circuit breaking capa-<br>city I <sub>cu</sub> under 415V AC IEC 60947-2   | 70 kA       |
| Rated service breaking capacity I <sub>cs</sub> under<br>110-138V AC according IEC 60947-2      | 85 kA       |
| Rated ultimate short-circuit breaking capa-<br>city I <sub>cu</sub> under 220V AC IEC 60947-2   | 85 kA       |
| Rated ultimate short-circuit breaking capa-<br>city I <sub>cu</sub> under 380V AC IEC 60947-2   | 70 kA       |
| Rated ultimate short-circuit breaking capa-<br>city I <sub>cu</sub> 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  | 140 mm      |
| <b>Frequency</b>  |             |
| Frequency   | 50 to 60 Hz |
| <b>Power</b>  |             |
| Total power loss under I <sub>N</sub>   | 45 W        |
| Power loss per pole at I <sub>N</sub>   | 15 W        |
| <b>Endurance</b>  |             |
| Electric endurance in number of cycles  | 10000       |

Subject to technical modifications

|  |                         |
|--|-------------------------|
| 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                      | adjustable              |
| <b>Cable</b>   |                         |
| Cable Material   | Cu / Al                 |
| <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  | No                      |
| RoHS conform   | Yes                     |
| Halogen free   | No                      |
| <b>Use conditions</b>                                    |                         |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3                       |
| Altitude   | 2000 m                  |

**temperatur**

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Temperature of calibration

50 °C