

**Moulded Case Circuit Breaker h3 x160 TM FIX 2P2D 80A 18kA CTC**

**Technical Features**

**Electric current**

|   |          |
|---|----------|
| Rated current   | 80 A     |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2 | 18 kA    |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2 | 25 kA    |
| Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947-2   | 25 kA    |
| Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2   | 18 kA    |
| Rated current 10°C according to IEC 60947   | 101.90 A |
| Rated current 15°C according to IEC 60947   | 99.40 A  |
| Rated current 20°C according to IEC 60947   | 96.90 A  |
| Rated current 25°C according to IEC 60947   | 94.30 A  |
| Rated current 30°C according to IEC 60947   | 91.60 A  |
| Rated current at 35°C according to IEC 60947  | 88.80 A  |
| Rated current at 40°C according to IEC 60947  | 86 A     |
| Rated current 45°C according to IEC 60947   | 83 A     |
| Rated current 50°C according to IEC 60947   | 80 A     |
| Rated current 55°C according to IEC 60947   | 76.80 A  |
| Rated current at 60°C according to IEC 60947  | 73.40 A  |
| Rated current 65°C according to IEC 60947   | 70 A     |
| Rated current 70°C according to IEC 60947   | 66.30 A  |

**Architecture**

|                  |                 |
|------------------|-----------------|
| Number of poles  | 2               |
| Neutral position | Without neutral |

**Tripping**

|                            |       |
|----------------------------|-------|
| Response time when opening | 10 ms |
|----------------------------|-------|

**Frequency**

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

**Voltage**

|  |        |
|--|--------|
| Rated impulse withstand voltage U <sub>imp</sub> | 8000 V |
| Rated insulation voltage U <sub>i</sub>          | 690 V  |

**Functions**

|           |        |
|-----------|--------|
| Trip unit | TM F/F |
|-----------|--------|

**Power**

|                                       |         |
|---------------------------------------|---------|
| Total power loss under I <sub>N</sub> | 12.60 W |
|---------------------------------------|---------|

**Endurance**

|  |       |
|--|-------|
| Electric endurance in number of cycles | 10000 |
| Number of mechanical operations        | 20000 |

**Safety**

|                               |      |
|-------------------------------|------|
| Ingress Protection (IP) class | IP4X |
|-------------------------------|------|

**Connection**

|                                  |                        |
|----------------------------------|------------------------|
| Cross-section flexible conductor | 4 - 70 mm <sup>2</sup> |
| Cross-section rigid conductor    | 4 - 95 mm <sup>2</sup> |

**Connectivity**

|                    |                |
|--------------------|----------------|
| Type of connection | Screw terminal |
|--------------------|----------------|

**Settings**

|   |   |
|---|---|
| Thermal protection knob setting xI <sub>N</sub> | 1 |
|   | 1 |

|                                   |  |          |
|-----------------------------------|--|----------|
| <b>Dimensions</b>                 |  |          |
| Height                            |  | 130 mm   |
| Width                             |  | 50 mm    |
| Depth                             |  | 68 mm    |
| <b>Compatibility</b>              |  |          |
| Suitable for DIN Rail             |  | No       |
| <b>Main electrical attributes</b> |  |          |
| Magnetic protection trip time     |  | 0 - 0 ms |
| <b>Sustainability</b>             |  |          |
| REACH-SVHC free                   |  | Yes      |
| RoHS conform                      |  | Yes      |