



HDA033L

### Moulded Case Circuit Breaker h3 x160 TM FIX 4P4D 32A 18kA CTC

#### Technical Features

##### Electric current

|                                                                               |         |
|-------------------------------------------------------------------------------|---------|
| Rated current                                                                 | 32 A    |
| Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2 | 18 kA   |
| Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2 | 25 kA   |
| Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2   | 25 kA   |
| Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2   | 18 kA   |
| Rated current 10°C according to IEC 60947                                     | 42 A    |
| Rated current 15°C according to IEC 60947                                     | 40.90 A |
| Rated current 20°C according to IEC 60947                                     | 39.80 A |
| Rated current 25°C according to IEC 60947                                     | 38.60 A |
| Rated current 30°C according to IEC 60947                                     | 37.30 A |
| Rated current at 35°C according to IEC 60947                                  | 36.10 A |
| Rated current at 40°C according to IEC 60947                                  | 34.70 A |
| Rated current 45°C according to IEC 60947                                     | 33.40 A |
| Rated current 50°C according to IEC 60947                                     | 32 A    |
| Rated current 55°C according to IEC 60947                                     | 30.50 A |
| Rated current 5°C according to IEC 60947                                      | 40.90 A |
| Rated current at 60°C according to IEC 60947                                  | 28.90 A |
| Rated current 65°C according to IEC 60947                                     | 27.20 A |
| Rated current 70°C according to IEC 60947                                     | 25.40 A |

##### Architecture

|                           |                |
|---------------------------|----------------|
| Number of poles           | 4              |
| Control/operation element | Toggle         |
| Device construction type  | Fixed built-in |

##### Tripping

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

##### Frequency

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

##### Voltage

|                                      |        |
|--------------------------------------|--------|
| Rated impulse withstand voltage Uimp | 8000 V |
| Rated insulation voltage Ui          | 690 V  |

##### Functions

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

##### Power

|                           |        |
|---------------------------|--------|
| Total power loss under IN | 8.40 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> |

##### Installation, mounting

|                               |       |
|-------------------------------|-------|
| Mounting-/Connection Position | Front |
|-------------------------------|-------|

##### Connectivity

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

|                                     |          |
|-------------------------------------|----------|
| <b>Settings</b>                     |          |
| Thermal protection knob setting xIN | 1        |
|                                     | 1        |
| <b>Dimensions</b>                   |          |
| Height                              | 130 mm   |
| Width                               | 100 mm   |
| Depth                               | 68 mm    |
| <b>Compatibility</b>                |          |
| Suitable for DIN Rail               | Yes      |
| <b>Main electrical attributes</b>   |          |
| Magnetic protection trip time       | 0 - 0 ms |
| <b>Sustainability</b>               |          |
| REACH-SVHC free                     | Yes      |
| RoHS conform                        | Yes      |