



HHA032Z

## Moulded Case Circuit Breaker X160 3P 25kA 32A

### Technical properties

#### Architecture

|                 |        |
|-----------------|--------|
| Type of order   | Toggle |
| Number of poles | 3 P    |
| Type of pole    | 3P3D   |

#### Functions

|  |        |
|--|--------|
| Complete device with protection unit           | Yes    |
| Trip Unit                                      | TM F/F |
| With integrated earth leakage fault protection | No     |

#### Configuration

|                   |     |
|-------------------|-----|
| Number of modules | 4.5 |
|-------------------|-----|

#### Main electrical features

|                              |             |
|------------------------------|-------------|
| Rated operational voltage Ue | 220 / 415 V |
| Frequency                    | 50/60 Hz    |

#### Voltage

|                                 |       |
|---------------------------------|-------|
| Rated insulation voltage        | 690 V |
| Rated impulse withstand voltage | 8 kV  |
| With under voltage release      | No    |

#### Electric current

|  |       |
|--|-------|
| Rated current  | 32 A  |
| Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 | 4 kA  |
| Thermal protection nob setting xIN   | 1     |
| Breaking capacity on 1 pole for IT 230V NF 60947-2                           | 21 kA |
| Breaking capacity on 1 pole for IT 400V NF 60947-2                           | 9 kA  |
| Rated service breaking capacity Ics AC according IEC 60947-2                 | 80 %  |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 35 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 35 kA |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 25 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 25 kA |
| Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2 | 20 kA |

**Current correction factors**

|   |   |
|---|---|
| Correction factor of rating current for 2 devices placed side-by-side       | 1 |
| Correction factor of rating current for 3 devices placed side-by-side       | 1 |
| Correction factor of rating current for 4 and 5 devices placed side-by-side | 1 |
| Correction factor of rating current for 6 devices placed side-by-side       | 1 |

**Power**

|                           |       |
|---------------------------|-------|
| Total power loss under IN | 8.4 W |
| Power loss per pole at In | 2.8 W |

**Tripping**

|                               |       |
|-------------------------------|-------|
| Tripmode                      | TM    |
| Thermal protection trip time  | 0 ms  |
| Time of response when opening | 10 ms |

**Electrical specifications**

|                          |      |
|--------------------------|------|
| Magnetic trip delay time | 0 ms |
|--------------------------|------|

**Endurance**

|  |      |
|--|------|
| Electric endurance in number of cycles | 1000 |
| Number of mechanical operations        | 4000 |

**Installation, mounting**

|   |     |
|---|-----|
| DIN rail mounting with optional adaptor | Yes |
|---|-----|

**Connection**

|   |                       |
|---|-----------------------|
| Connection cross-sect. flexible conductor | 4 / 70mm <sup>2</sup> |
| Connection cross-sect. rigid cable        | 4 / 95mm <sup>2</sup> |
| Connection                                | Front connection      |
| Type of connection                        | with screw            |

**Settings**

|                                  |       |
|----------------------------------|-------|
| Range of the magnetic adjustment | 600 A |
| Setting type In or Ith           | IN    |

**Equipment**

|   |    |
|---|----|
| 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                                    | No |

**Use cases**

|                 |   |
|-----------------|---|
| Category of use | A |
|-----------------|---|

**Standards**

|               |             |
|---------------|-------------|
| Standard text | IEC 60947-2 |
|---------------|-------------|

**Use conditions**

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Altitude

2000 m

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Air humidity protection

for all climates