



HDA041L

## Moulded Case Circuit Breaker X160 4P 18kA 40A

### Technical properties

#### Architecture

|                 |     |
|-----------------|-----|
| Number of poles | 4 P |
|-----------------|-----|

#### Functions

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

#### Configuration

|                   |   |
|-------------------|---|
| Number of modules | 6 |
|-------------------|---|

#### 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  | 40 A  |
| Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 | 4 kA  |
| Thermal protection nob setting xIN   | 1     |
| Thermal setting current on neutral pole                                      | 1 In  |
| Breaking capacity on 1 pole for IT 230V NF 60947-2                           | 15 kA |
| Breaking capacity on 1 pole for IT 400V NF 60947-2                           | 9 kA  |
| Rated service breaking capacity Ics AC according IEC 60947-2                 | 100 % |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 25 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 25 kA |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 18 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 18 kA |
| Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2 | 15 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                     |
| <b>Power</b>  |                       |
| Total power loss under IN   | 11 W                  |
| Power loss per pole at In   | 3.7 W                 |
| <b>Tripping</b>   |                       |
| Tripmode  | TM                    |
| Thermal protection trip time  | 0 ms                  |
| Time of response when opening   | 10 ms                 |
| <b>Electrical specifications</b>  |                       |
| Magnetic trip delay time  | 0 ms                  |
| <b>Endurance</b>  |                       |
| Electric endurance in number of cycles                                      | 1000                  |
| Number of mechanical operations   | 4000                  |
| <b>Installation, mounting</b>   |                       |
| DIN rail mounting with optional adaptor                                     | No                    |
| <b>Connection</b>   |                       |
| Connection cross-sect. rigid cable  | 4 / 95mm <sup>2</sup> |
| <b>Settings</b>   |                       |
| Range of the magnetic adjustment  | 600 A                 |
| Setting type In or Ith  | IN                    |
| <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  | No                    |
| <b>Use cases</b>  |                       |
| Category of use   | A                     |
| <b>Standards</b>  |                       |
| Standard text   | IEC 60947-2           |
| European directive WEEE   | concerned             |
| <b>Use conditions</b>   |                       |
| Operating temperature   | -25...70 °C           |
| Altitude  | 2000 m                |

Subject to technical modifications

