



HLE180S

### MCB 1P 10kA B-80A 1.5M

#### Technical Features

##### Architecture

|              |    |
|--------------|----|
| Type of pole | 1P |
| Curve        | B  |

##### Voltage

|                                           |             |
|-------------------------------------------|-------------|
| Rated operational voltage $U_e$           | 240 - 415 V |
| Type voltage supply                       | AC          |
| Rated insulation voltage $U_i$            | 500 V       |
| Rated impulse withstand voltage $U_{imp}$ | 6000 V      |

##### Frequency

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

##### Installation, mounting

|                                               |                |
|-----------------------------------------------|----------------|
| Nominal tightening torque                     | 3.5 - 5.0 Nm   |
| Type of top connection for modular devices    | Screw terminal |
| Type of bottom connection for modular devices | Screw terminal |

##### Electric current

|                                                                                        |         |
|----------------------------------------------------------------------------------------|---------|
| Rated current                                                                          | 80 A    |
| Rated service breaking capacity $I_{cs}$ AC according to IEC 60898-1                   | 7.50 kA |
| Rated short-circuit breaking capacity $I_{cn}$ under 230 V AC according to IEC 60898-1 | 10 kA   |
| Rated ultimate short-circuit breaking capacity $I_{cu}$ under 230 V AC IEC 60947-2     | 10 kA   |

##### Main electrical attributes

|                                                                            |       |
|----------------------------------------------------------------------------|-------|
| Rated short-circuit breaking capacity $I_{cn}$ AC according to IEC 60898-1 | 10 kA |
|----------------------------------------------------------------------------|-------|

##### Installation, mounting

|                                         |                |
|-----------------------------------------|----------------|
| Nominal tightening torque down terminal | 3.60 - 3.60 Nm |
| Nominal tightening torque top terminal  | 3.60 - 3.60 Nm |

##### Safety

|                               |      |
|-------------------------------|------|
| Ingress Protection (IP) class | IP20 |
|-------------------------------|------|

##### Power

|                              |        |
|------------------------------|--------|
| Total power loss under $I_N$ | 6.18 W |
|------------------------------|--------|

##### Endurance

|                                        |       |
|----------------------------------------|-------|
| Electric endurance in number of cycles | 4000  |
| Number of mechanical operations        | 20000 |

##### Connection

|                                                                        |                        |
|------------------------------------------------------------------------|------------------------|
| Cross-section of input and output with screws, for massive conductors  | 1 - 70 mm <sup>2</sup> |
| Cross-section of input and output with screws, for flexible conductors | 1 - 50 mm <sup>2</sup> |
| Cross-section flexible conductor                                       | 50 mm <sup>2</sup>     |
| Cross-section rigid conductor                                          | 70 mm <sup>2</sup>     |

##### Use conditions

|                                                          |                  |
|----------------------------------------------------------|------------------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3                |
| Air humidity protection                                  | For all climates |
| Operating temperature                                    | -25 - 70 °C      |

##### Capacity

|                   |      |
|-------------------|------|
| Number of modules | 1.50 |
|-------------------|------|

##### Connectivity

|                                               |                  |
|-----------------------------------------------|------------------|
| Top connection alignment for modular devices  | Aligned terminal |
| Down connection alignment for modular devices | Aligned terminal |

|                       |  |       |
|-----------------------|--|-------|
| <b>Dimensions</b>     |  |       |
| Height                |  | 90 mm |
| Width                 |  | 27 mm |
| Depth                 |  | 70 mm |
| <b>Sustainability</b> |  |       |
| RoHS conform          |  | Yes   |