



HA452

### Load break switch 4P 160A

#### Technical Features

##### Electric current

|                                                                                             |          |
|---------------------------------------------------------------------------------------------|----------|
| Rated current                                                                               | 160 A    |
| Rated short-time withstand current I <sub>cs</sub> IEC 60947                                | 7 kA     |
| Acceptable current rating AC21                                                              | 160 A    |
| Acceptable current rating AC21 category A                                                   | 160 A    |
| Acceptable current rating AC21 category B                                                   | 160 A    |
| Acceptable current rating AC22 category A                                                   | 160 A    |
| Acceptable current rating AC23 category A                                                   | 160 A    |
| Acceptable current rating AC23 category B                                                   | 160 A    |
| Rated short-circuit making capacity I <sub>cm</sub> under 415 V AC according to IEC 60947-3 | 11.90 kA |
| Rated short-time withstand current I <sub>cs</sub> 1s IEC 60947                             | 7 kA     |

##### Architecture

|                           |                    |
|---------------------------|--------------------|
| Number of poles           | 4                  |
| Control/operation element | Long rotary handle |
| Device construction type  | Fixed built-in     |
| Type of pole              | 4P                 |

##### Dimensions

|        |        |
|--------|--------|
| Height | 135 mm |
| Width  | 120 mm |
| Depth  | 170 mm |

##### Cover, door

|               |     |
|---------------|-----|
| Interlockable | Yes |
|---------------|-----|

##### Safety

|                               |      |
|-------------------------------|------|
| Ingress Protection (IP) class | IP00 |
|-------------------------------|------|

##### Connection

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

##### Voltage

|                                                  |             |
|--------------------------------------------------|-------------|
| Rated insulation voltage U <sub>i</sub>          | 800 V       |
| Rated impulse withstand voltage U <sub>imp</sub> | 8000 V      |
| Rated operational voltage U <sub>e</sub>         | 380 - 415 V |

##### Power

|                                             |          |
|---------------------------------------------|----------|
| Power loss per pole at I <sub>n</sub>       | 3 W      |
| Total power loss under I <sub>N</sub>       | 9 W      |
| Rated operational power under 400 V AC AC1  | 105000 W |
| Rated operational power under 400 V AC AC23 | 72000 W  |

##### Controls and indicators

|                        |    |
|------------------------|----|
| Motor drive integrated | No |
|------------------------|----|

##### Use conditions

|                       |             |
|-----------------------|-------------|
| Operating temperature | -20 - 70 °C |
|-----------------------|-------------|

##### Frequency

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

##### Functions

|                                        |     |
|----------------------------------------|-----|
| Is reversing switch                    | No  |
| Version as emergency stop installation | No  |
| Version as main switch                 | Yes |
| Version as maintenance/service switch  | Yes |
| Version as safety switch               | Yes |
| Version as switch disconnecter compact | Yes |

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**Equipment**

|                                                         |    |
|---------------------------------------------------------|----|
| Motor drive optional                                    | No |
| Number of auxiliary contacts as change-over contact     | 0  |
| Number of auxiliary contacts as normally closed contact | 0  |
| Number of auxiliary contacts as normally open contact   | 0  |

**Installation, mounting**

|                           |            |
|---------------------------|------------|
| Nominal tightening torque | 9 - 9.9 Nm |
|---------------------------|------------|

**Sustainability**

|                 |     |
|-----------------|-----|
| Halogen free    | Yes |
| REACH-SVHC free | Yes |
| RoHS conform    | Yes |