



HCF990H

## Switch h1600 3P 1600A

Product Datasheet

### Architecture

|                  |                 |
|------------------|-----------------|
| Type of order    | Toggle          |
| Neutral position | without neutral |
| Number of poles  | 3 P             |
| Type of pole     | 3 P             |

### Functions

|                  |        |
|------------------|--------|
| Reversing switch | no     |
| Trip Unit        | SWITCH |

### Main electrical features

|                              |             |
|------------------------------|-------------|
| Rated operational voltage Ue | 220 / 690 V |
| Frequency                    | 50/60 Hz    |

### Voltage

|                                 |       |
|---------------------------------|-------|
| Rated insulation voltage        | 800 V |
| Rated impulse withstand voltage | 8 kV  |

### Electric current

|   |        |
|---|--------|
| Rated current   | 1600 A |
| Rated operational current in AC21   | 1600 A |
| Rated short-circuit making capacity I <sub>cm</sub> under 240V AC according IEC 60947-3 | 45 kA  |
| Rated short-circuit making capacity I <sub>cm</sub> under 415V AC according IEC 60947-3 | 45 kA  |
| Rated short-circuit making capacity I <sub>cm</sub> under 690V AC according IEC 60947-3 | 45 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 I <sub>N</sub> | 168,9 W |
| Power loss per pole at I <sub>n</sub> | 56,3 W  |
| Contact rating with 400 V in AC1      | 1053 kW |

### Tripping

|                               |       |
|-------------------------------|-------|
| Time of response when opening | 10 ms |
|-------------------------------|-------|

**Endurance**

|  |       |
|--|-------|
| Electric endurance in number of cycles | 4500  |
| Number of mechanical operations        | 15000 |

**Cover, door**

|               |     |
|---------------|-----|
| Interlockable | yes |
|---------------|-----|

**Materials**

|               |       |
|---------------|-------|
| Toggle colour | Black |
|---------------|-------|

**Installation, mounting**

|                   |      |
|-------------------|------|
| Tightening torque | 65Nm |
|-------------------|------|

**Connection**

|   |                      |
|---|----------------------|
| Connection cross-sect. flexible conductor | 3x240mm <sup>2</sup> |
| Connection cross-sect. rigid cable        | 3x240mm <sup>2</sup> |
| Connection                                | Front connection     |
| Type of connection                        | Terminal             |

**Equipment**

|                      |     |
|----------------------|-----|
| Motor drive optional | yes |
|----------------------|-----|

**Use cases**

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

**Standards**

|                         |             |
|-------------------------|-------------|
| Standard text           | IEC 60947-3 |
| European directive WEEE | concerned   |

**Safety**

|                     |      |
|---------------------|------|
| Protection index IP | IP4X |
|---------------------|------|

**Use conditions**

|  |             |
|--|-------------|
| Operating temperature                                    | -25...70 °C |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3           |
| Altitude   | 2000 m      |
| Air humidity protection                                  | 85% / 50°C  |
| Storage/transport temperature                            | -35...70 °C |