

Safety Data Sheet (SDS) for Main Switch Built-in Variant (3-Pole and 4-Pole, Front IP65, Contacts IP20)

1. Product Identification and Manufacturer Information

Product Name:

Main Switch Built-in Variant (3-Pole and 4-Pole)

Product Variants:

- **Number of Poles:** 3-Pole, 4-Pole
- **Current Ratings:** 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A
- **Protection Class:** Front IP65, Contacts IP20

Manufacturer:

HILPRESS GmbH
Grütmühlenweg 40
22339 Hamburg, Deutschland
Telefon: +49 40 53809230
E-Mail: info@hilpress.de
Website: www.hilpress.de

Product Use:

Main switch for manual interruption and disconnection of electrical circuits. Suitable for front-panel installation in control cabinets and equipment. Protection class IP65 applies to the front; contacts are IP20-protected.

2. Safety Information

2.1 General Safety Measures:

- Installation and maintenance must only be carried out by qualified personnel.
- Ensure the power supply is disconnected before performing any work on the switch.
- Use appropriate personal protective equipment (PPE), such as insulating gloves and protective eyewear.
- The main switch must not be used in explosive atmospheres.

2.2 Risks:

- **Electric Shock:** Improper connection or contact with IP20-protected terminals may result in electric shock.
- **Fire Hazard:** Overloading or incorrect wiring may cause overheating and fire.
- **Mechanical Risks:** Improper handling during installation may result in injury.

2.3 Protective Measures:

- The main switch must be correctly wired and operated with suitable cable sizes matching the rated current.

- Ensure the front IP65 protection is maintained through proper installation.
 - Contacts (IP20) must only be installed in enclosed, dry environments to ensure adequate protection.
-

3. Handling and Storage

- **Storage Conditions:**
Store in a dry, well-ventilated area at temperatures between -25°C and +60°C. Avoid direct sunlight and mechanical stress.
 - **Transport:**
Protect the device from impacts, moisture, and dust during transport. It is recommended to use the original packaging.
 - **Installation:**
The main switch should be mounted in switch panels or cabinets designed for front-panel installation. The installation site must be accessible and suitable for maintenance.
-

4. Physical and Chemical Properties

- **Enclosure Material:** UV-resistant plastic (ABS), weatherproof and impact-resistant.
- **Colors:** Gray housing with red switch and yellow front plate (safety marking).
- **Protection Class:** Front IP65 (dustproof and protected against water jets), Contacts IP20 (protection against solid objects larger than 12 mm).
- **Mechanical Lifespan:** Up to 10,000 switching cycles.
- **Electrical Lifespan:** Dependent on current rating and load.

Dimensions and Weight:

Dependent on the number of poles and current rating, e.g.:

- 3-Pole 10A: approx. 120 mm x 80 mm x 70 mm, weight: approx. 0.6 kg.
- 4-Pole 100A: approx. 200 mm x 150 mm x 100 mm, weight: approx. 2.0 kg.

Electrical Specifications:

- **Rated Voltage:** 230/400V AC.
 - **Current Ratings:** 10A to 100A, depending on the variant.
-

5. First-Aid Measures

- **In Case of Electric Shock:**
Immediately disconnect the power supply and isolate the person from the source (only if safe to do so). Call emergency services and provide first aid.
- **In Case of Cuts:**
Clean the wound, disinfect, and seek medical attention if necessary.

6. Fire-Fighting Measures

- **Suitable Extinguishing Media:**
Use CO₂, dry powder, or foam extinguishers. Do not direct water onto live electrical parts.
- **Specific Hazards:**
Toxic gases may be released from plastic components during a fire. Use respiratory protection.

7. Disposal Information

- **Product Disposal:**
Dispose of the main switch in accordance with local regulations for electronic waste (WEEE Directive).
- **Packaging:**
Cardboard and plastic materials can be recycled through local recycling programs.

8. Regulatory Information

- **Compliance:**
This product complies with applicable EU standards (e.g., Low Voltage Directive 2014/35/EU, RoHS).
- **REACH Compliance:**
The product contains no Substances of Very High Concern (SVHC).

9. Manufacturer Declaration

This main switch has been manufactured to the highest standards. It must only be installed and operated by qualified personnel. Improper installation or operation will void the warranty and exclude manufacturer liability.

This safety data sheet provides an overview of the essential information regarding this product. It does not replace technical documentation or installation manuals.

Contact Information:

For further details, please contact Hilpress GmbH.