

Cam Switch HD1 12A/660V

Technical Description

The cam switch HD1 consists of the following main elements:

- front plate with actuator and coupling disc
- notched casing
- switch modules

Each switch module can be supplied with 1 or 2 double break silver contacts. The HD1 switch can be supplied with up to 12 modules giving a maximum of 24 contacts.

Switch angles of 30°, 60° and 90° are available. Automatic return is available on the 30° switch at either end or both.

All materials used for the different components are of high quality, current leak resistant thermo-plastics.

The HD1 switch is available with a choice of: actuator lever, knob or key switch.

Due to modular construction, the switching programme can be altered at any time.

The HD1 is available with a wide range of mounting possibilities. Central fixing 22.5mm, front or rear mounting, DIN rail fixing or mounted in a sealed plastic box. Mounting plate sizes are 48 × 48 or 64 × 64mm.

The retained terminals which are supplied open feature a screw-driver guide.

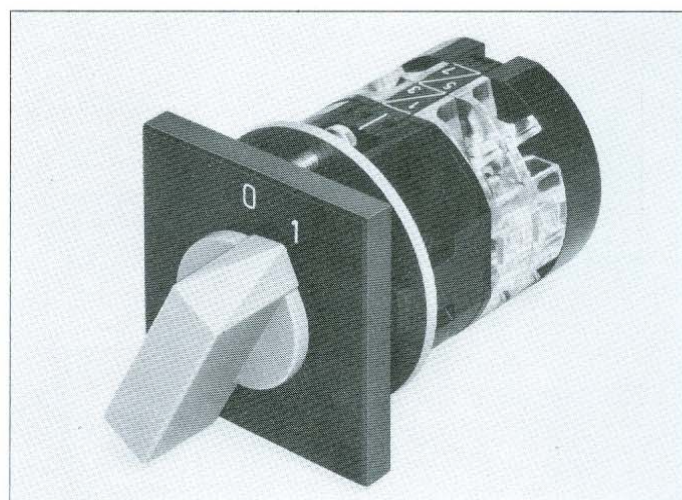
The HD1 switch combined with the specially designed electronic switching elements offers new possibilities in the construction of control systems.

Technical Data HD1

| | | |
|----------------------------------|----------------------------------|---------------|
| Nominal insulation voltage U_i | (V) | 660 |
| Permanent current I_{th2} | (A) | 12 |
| Rated power | 3 × 380V AV 1 (kW) | 6 |
| Rated power/Rated opera. current | 3 × 380V AV 3 ($\frac{kW}{A}$) | $\frac{3}{7}$ |
| Rated operation current | 220V AV 11 (A) | 5,5 |

Switch capacity (max. values)

| | | | |
|--|--|--------------------|---------|
| a) Alternating current | | | |
| 500V ~ 1-pole | cos φ 0,95 | (A) | 40 |
| b) Direct current | | | |
| 60V = | $\left\{ \begin{array}{l} \text{ohmic} \\ \text{inductive } L/R = 15\text{ms} \end{array} \right.$ | (A) | 13 |
| $\overline{\text{—}} \text{—} \text{—}$ | | (A) | 4 |
| 60V = | $\left\{ \begin{array}{l} \text{ohmic} \\ \text{inductive } L/R = 15\text{ms} \end{array} \right.$ | (A) | 30 |
| $\overline{\text{—}} \text{—} \text{—} \text{—}$ | | (A) | 10 |
| Mechanical service live | (Mio) | 1,5 | |
| System protection (from front) | | | IP 54 |
| Ambient temperature | max. | (°C) | + 60 |
| | min. | (°C) | - 20 |
| Connection cross-section | max. | (mm ²) | 2 × 4 |
| | min. | (mm ²) | 2 × 0,5 |
| Terminal screws | | | M 3 |



Directions for ordering

Ghielmetti has developed an ordering code by means of which a cam switch can be designated easily, quickly and accurately.

The three criteria are as follows:

1. Model size



This designation consists of three characters for the capacity and denotes the technical data of the cam switch HD1.

2. Circuit diagram



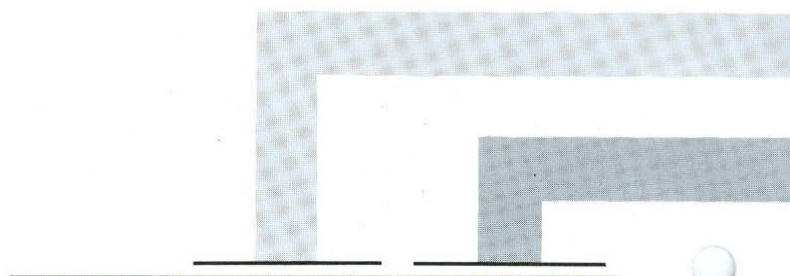
The second block of four characters describes the circuit diagram, switching angle, front plate markings, number of poles and switch modules.

3. Type



The last four characters determine the method of fixing, the front plate size, the actuator style and colour.

Ordering Code



Model size Circuit diagram Type