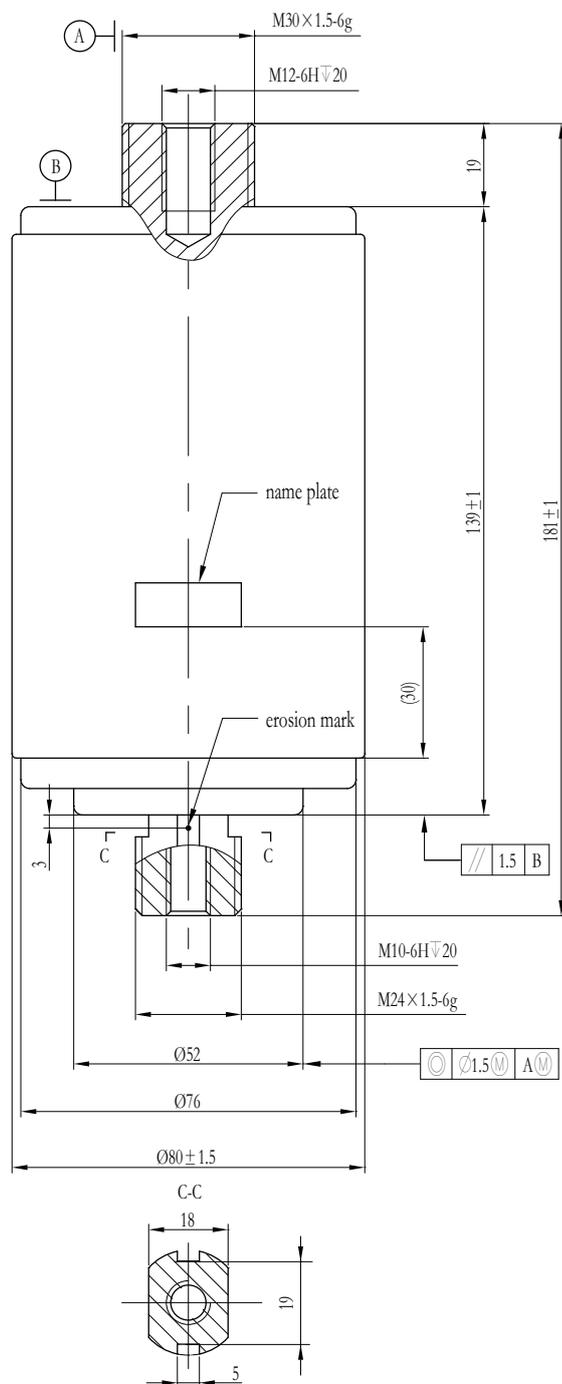


## GTC-15/630-20



| Main Technical Data                                 |                                                                                                                                    |                        |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Item                                                | Unit                                                                                                                               | Value                  |
| Rated Voltage                                       | kV                                                                                                                                 | 15                     |
| Lightning Impulse Withstand Voltage (Peak)          | kV                                                                                                                                 | 100☆                   |
| Short-time (1min) Power-frequency Withstand Voltage | kV                                                                                                                                 | 38/50☆                 |
| Rated Frequency                                     | Hz                                                                                                                                 | 60                     |
| Rated Current                                       | A                                                                                                                                  | 630                    |
| Rated Short-time Withstand Current                  | kA                                                                                                                                 | 20                     |
| Rated Duration of Short-circuit                     | s                                                                                                                                  | 4                      |
| Rated Peak Withstand Current                        | kA                                                                                                                                 | 50                     |
| Rated Short-circuit Making Current                  | kA                                                                                                                                 | 50                     |
| Rated Short-circuit Breaking Current                | kA                                                                                                                                 | 20                     |
| Rated Operating Voltage                             | kV                                                                                                                                 | 15                     |
| Mechanical Endurance                                | Operations                                                                                                                         | 10000                  |
| Clearance Between Open Contacts                     | mm                                                                                                                                 | 9±1                    |
| Contact Closed Force Due to Bellows and Atmosphere  | N                                                                                                                                  | 80±25                  |
| Counterforce of Contact at Full Stroke              | N                                                                                                                                  | 140±30                 |
| Circuit Resistance at Min. Rated Contact Force      | μΩ                                                                                                                                 | ≤25                    |
| Contact Limit Erosion                               | mm                                                                                                                                 | 3                      |
| Mass of Moving Parts                                | kg                                                                                                                                 | 0.6                    |
| Internal Gas Pressure                               | Pa                                                                                                                                 | <1.33×10 <sup>-3</sup> |
| Shelf Life                                          | Years                                                                                                                              | 20                     |
| Rated Operating Sequence :                          | O-t1-CO-t2-CO-t3-CO-Lockout                                                                                                        |                        |
| Min. Rated Starting Current(error ≤ ±10%) :         | Hydraulic Pressure Control:<br>it is twice as large as the rated current of series coil.<br>Electron Control:<br>it is adjustable. |                        |

| Mechanical Data of Switch Equipped With Interrupter |      |                                   |
|-----------------------------------------------------|------|-----------------------------------|
| Item                                                | Unit | Value                             |
| Average Opening Speed                               | m/s  | 1.1±0.2                           |
| Average Closing Speed                               | m/s  | 0.6±0.2                           |
| Contact Bounce Duration at Closing Operation        | ms   | ≤3                                |
| Out of Simultaneity of Contact Closing and Opening  | ms   | ≤1                                |
| Rated Contact Pressure                              | N    | 1800 <sup>+200</sup> <sub>0</sub> |
| Contact Pressure at Contact Touch Point             | N    | 1300 <sup>+200</sup> <sub>0</sub> |
| Max. Rebound of Contact at Opening Operation        | mm   | 2                                 |
| Overtravel During Opening                           | mm   | ≤2                                |

Note 1: "☆" Within transformer oil or equivalent isolation medium;

Note 2: Meets or exceeds the electrical endurance requirements for autoreclosing duty per IEC 62271-100 ;

Note 3: The movable stem of the vacuum interrupter could not suffer twisting force and in order not to damage the metal bellows, the movable stem should be prevent from rotation when assembling. For more requirements please check the Instructions of Usage.