

# MCB

# 126 (O)X

# ARKASIL

**Type**

**Maximum system voltage**

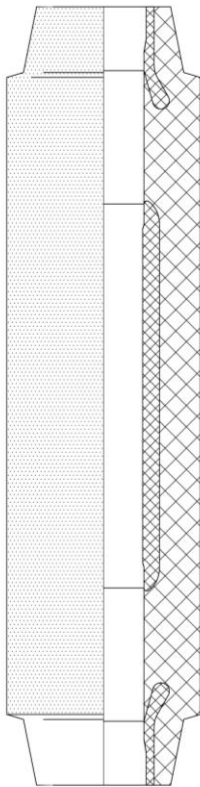
**PDD-27-19-044**

## PRODUCT DESCRIPTION

Pre-moulded outdoor joint MCB 126 (O)X is designed to connect two XLPE 64/110 kV high voltage cables. Joint MCB 126 (O)X has cross-bonding connection of different cable phase wires screen (screen transition). Optionally it is available configurations with optic fiber connection.

Joint MCB 126 (O)X contains:

- Silicone pre-molded joint body
- Special tapes for different purposes
- Protective covering from heat shrinkable tubes and sleeves (optionally other protective covering)
- Optic fiber connection (Optionally)



## BASIC COMPONENTS

### **INSULATOR**

- Silicone pre-molded joint body with conductive elements for electrical field control.

### **CONNECTOR AND SEALING MATERIALS**

- **compression bolt connector (only for MCB 126 X / MCB 126 OX),**
- **screw bolt connector (only for MCB 126 BX/ MCB 126 BOX),**
- **welding connection (only for MCB 126 MX/ MCB 126 MOX),**
- Sealing and fixing materials
- Optionally it could be sleeve with screws or welded connection

 **MCB****126 (O)X****ARKASIL****Type**      **Maximum system voltage****PDD-27-19-044****AREA OF APPLICATIONS**

|   |              |
|---|--------------|
| Type  | MCB 126 (O)X |
| Maximum system voltage, kV                      | 126          |
| Cable conductor cross section, mm <sup>2</sup>  | 185 ÷ 2000   |
| Maximum outer sheath diameter, mm               | 115          |
| Maximum cable insulation diameter(prepared), mm | 93           |

**TECHNICAL DATA**

|  |                                |
|--|--------------------------------|
| Type   | MCB 126 (O)X                   |
| <b>Electrical data:</b>                        |                                |
| AC voltage withstand test                      | 160 kV for 30 min              |
| Impulse withstand voltage (10+/10- impulses)   | 550 kV                         |
| Partial discharge test                         | < 5 pC at 96 kV                |
| <b>Climatic data:</b>                          |                                |
| Climatic version                               | - 45°C/ + 50°C                 |
| Nominal operating current                      | Limited by cable specification |
| Short circuit current                          | Limited by cable specification |
| <b>Sheath withstand voltages:</b>              |                                |
| DC voltage, kV                                 | 20 kV for 1 min                |
| Impulse voltage (10+/10- impulses)             | 37,5 kV                        |
| <b>Sheath interruption withstand voltages:</b> |                                |
| DC voltage, kV                                 | 20 kV for 1 min                |
| Impulse voltage (10+/10- impulses)             | 75 kV                          |
| <b>Mechanical data:</b>                        |                                |
| Approximate weight, kg                         | 60                             |

**ALL TYPE TESTS ACCORDING TO REQUIRMENTS**

IEC 60840



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## **MOUNTING**

MCB 126 (O)X must be mounted by trained/certified personnel. Mounting area must be protected from dust and moisture. Temperature of mounting should be from +10 to +40 C.

### **SHELF LIFE OF MCB 126 (O)X COMPONENTS**

|   |          |
|---|----------|
| Silicone insulator                                      | 5 years  |
| Base plate  | 30 years |
| Connector cover   | 30 years |
| Connector   | 30 years |
| Sealing   | 5 years  |
| Bolts, screws, studs, washers, nuts and other fasteners | 30 years |
| Tinned copper connector                                 | 30 years |
| Spiral spring   | 30 years |
| Heat shrinkable tube                                    | 5 years  |
| Self-bonding semiconductive tape                        | 5 years  |
| Self-bonding insulation tape                            | 5 years  |
| PVC tape  | 5 years  |
| Mastic tape   | 2 years  |
| Copper mesh tape  | 30 years |
| Silicon grease  | 2 years  |
| Additional materials for mounting                       | 5 years  |
| Welding wire (in case of connector for welding)         | 30 years |
| Materials for optical fiber output                      | 30 years |

### **STORAGE AND TRANSPORTATION CONDITIONS**

1. MCB 126 (O)X shall be stored and transported in original package with Arkasil SK LLC sealing. Sealing damage is restricted.
2. Storage conditions:
  - Temperature range +5..+40.
  - Average relative humidity – 60%.
  - Maximal relative humidity – 80% at 25 °C.
  - Indoor conditions only.
  - Package shall be protected from dust, rain, snow, fox, etc.
  - Aggressive environment (i.e. acids, bases, solvents) is restricted.
  - Staking - see storage instruction.
3. Transportation conditions:
  - Covered trailer only (solid or tent with no direct sunlight).
  - Packages shall be fixed during transportation.
  - No strikes, shake and fallings are allowed.
4. Shelf life time of components is specified in the table above. Components should be replaced by new ones after shelf life expiration.