

# MV CAPACITOR 4 $\mu$ F

**Type:** PUFFS 1-3/4  
**Rated voltage:** 3 kV DC  
**Capacitance value:** 4  $\mu$ F

## Construction:

The construction of the dielectric is all-film. The dielectric is polypropylene foil impregnated with non-toxic, non-PCB environmentally friendly and biodegradable synthetic oil. The aluminium foil construction of the electrodes ensures extremely low capacitor losses. Capacitor discharge is achieved by internal discharge resistors to decrease the residual capacitor voltage to 50V within 5 minutes. The case and mounting brackets are manufactured from Stainless Steel that is polyurethane coated to ensure prolonged durability. The capacitors are delivered as temperature category -40/D capacitors, which allow for operating in maximum ambient temperatures of +55°C. The capacitor complies with IEC 60871-1 and is Transnet approved in accordance with Transnet Technology Management Specifications CEE 0115.

## TECHNICAL DETAILS:

**Rated voltage:** 3 000 V DC  
**Max.permissible DC voltage:** 4 500 V DC  
**Max.permissible AC voltage:** 1 500 V AC  
**Rated current:** 30 Amp  
**Max.permissible current:** 47 Amp  
**Capacitance:** 4  $\mu$ F  
**Capacitance tolerance:** -5/+10%  
**Capacitor losses:**  $\text{tg } \delta \text{ max. } 2 \times 10^{-4}$   
**BIL:** LIVE CASE  
**Residual voltage:** 50 V

**Dielectric insulating medium:** JARYLEC C101D  
**Temperature category:** -40/D  
**Max.permissible temperature:** +55°C

**Capacitor dimensions:** 664mm x 280mm x 130mm  
**Capacitor mass:** 19 kg  
**Container material:** Stainless steel grade 1.4512  
**Bracket material:** Stainless steel grade 1.4301  
**Coating:** Polyurethane coated, colour RAL 7035

**Test voltage  $U_{TT}$  (=  $U_{TC}$ ):** 20 kV DC / 1 min.

**Life expectancy:** 175 200 hrs when operating within rated parameters  
**Standard:** IEC 60871-1/05  
**Specification:** Transnet Specification CEE 0115

**Manufacturer:**  
**ZEZ SILKO s.r.o.**  
 Pod černým lesem 683  
 564 01 Zamberk  
 Czech Republic

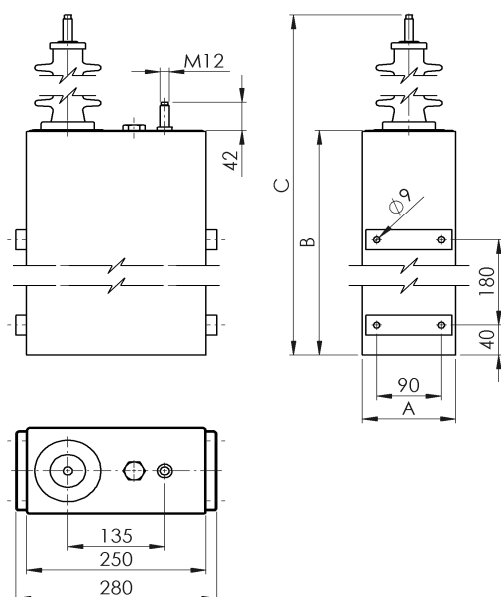
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| DIMENSIONS: |     |
|-------------|-----|
| A [mm]      | 130 |
| B [mm]      | 390 |
| C [mm]      | 664 |