

Epoxy-Mica Partial Discharge Coupling Capacitor 16kV / 80pF

EMPDC16-0080

Key Features

- Nominal Voltage 16kVrms (L-L)
- Epoxy-Mica Type



Applications

- Hydro Generators
- Turbo Generators
- Industrial Motors

General Description

The 80pF epoxy-mica coupling capacitor is a sensor used for online partial discharge measurements on rotating machines. The sensor is usually installed at the busbar, on the high voltage terminals or within the winding of the stator winding of the rotating machine. Permanent or temporary partial discharge detectors / analyzer can be connected via standard RG58 BNC cables to the coupler terminal box.

The EMPDC16-0080 is connected by a high voltage cable via cable lugs to the high voltage to pickup partial discharge signals without any loss. The Signal output is protected via a protection resistor and a 90V surge arrester within the termination box.

Ordering Information

Order Code:	18.3160.0080	3x EMPDC16-0080 Coupling Capacitor 1x TB-004-i Termination Box, 100m Coaxial Cable RG58c/u, BNC connectors Including installation material per capacitor as Stainless Steel Mounting Brackets, 1m HV wire, silicone rubber protection cap
	18.6160.0080	6x EMPDC16-0080 Coupling Capacitor 1x TB-006-i Termination Box, 2x100m Coaxial Cable RG58c/u, BNC connectors Including installation material per capacitor as Stainless Steel Mounting Brackets, 1m HV wire, silicone rubber protection cap

Epoxy-Mica Partial Discharge Coupling Capacitor, 16kV / 80pF



Technical Data

Electrical

Nominal Voltage (L-L):	16kVrms	Lightning Impulse Withstand (BIL):	125kVp (IEC60060-1)
Nominal Voltage (L-G):	9.3kVrms	PD Level @ 18.6kV:	< 2pC
Capacitance:	80pF +/-5%	AC Endurance Test (85degC / 23.25kV):	1000h
Frequency Range:	50/60Hz	Signal Output Type:	Screw Terminal
Withstand Voltage (1min):	40kVrms		

Environment

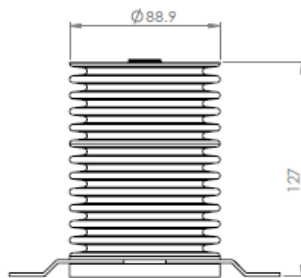
Operating Temperature Range: -55 .. +125°C

Mechanical

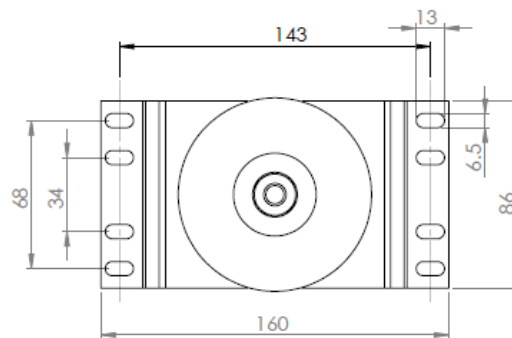
Mounting / Fixing:	4x M6 Hex Screws Via Brackets	Electrical Connection:	3/8-24 UNF
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Dimensions

Outline:



Fixing:



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