

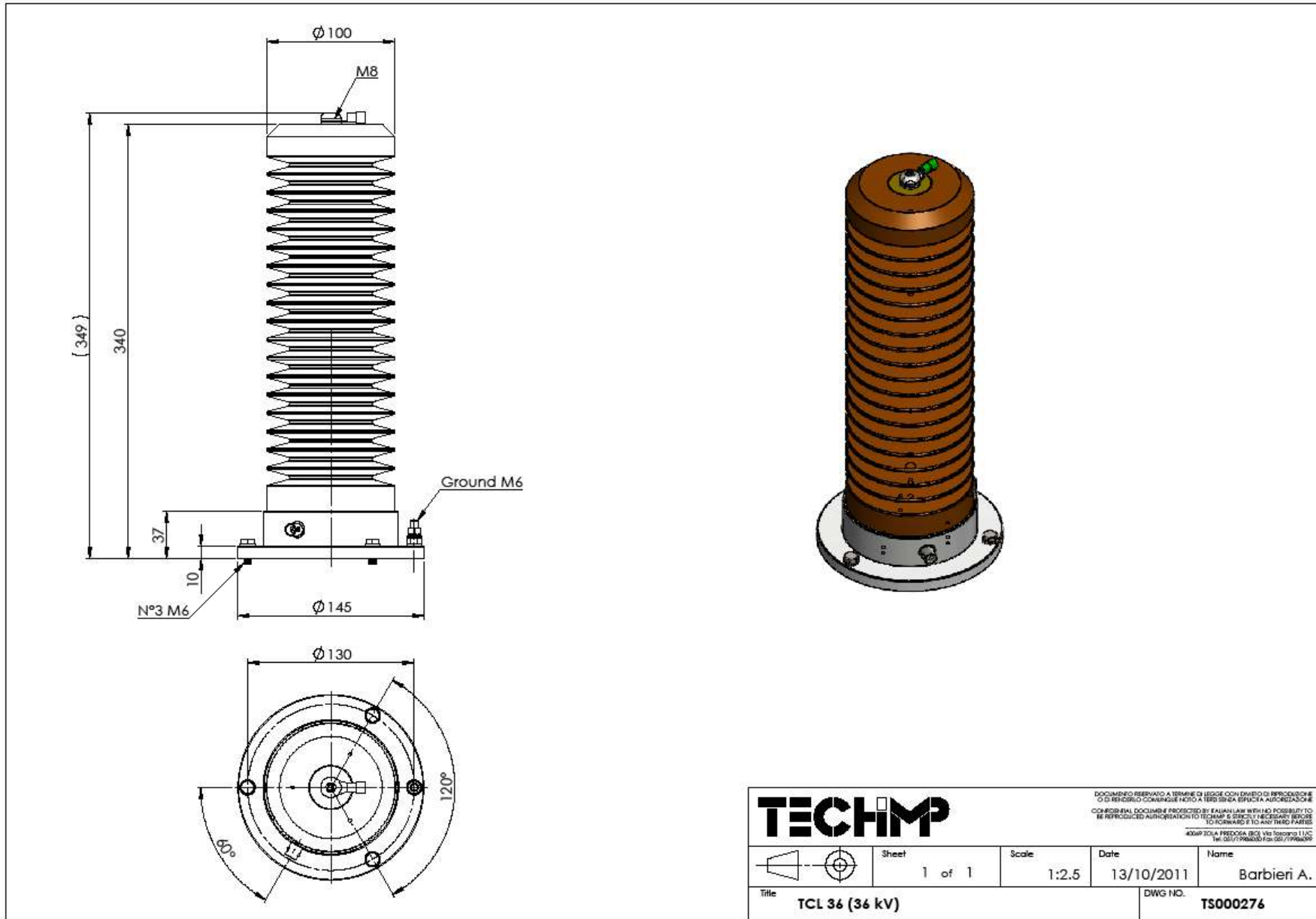
TCL36 Coupler - 36 kV



Description	Features
<p>TCL36s are capacitive couplers specifically designed for partial discharge measurements. It perfectly matches Techimp measurement units such as PDCheck, PDScope or PDBasell systems.</p> <p>Its compact size makes it a good choice for on line and off line PD tests on rotating machines, for both spot measurements and permanent monitoring applications.</p> <p>It can be permanently installed in terminal boxes of AC power generators as well as in power supply boxes of critical power motors or inside MV bus ducts.</p> <p>A BNC output termination is available on the base.</p> <p>For permanent installation it must be fixed through 4 holes on the bottom flange.</p> <p>It comes with a dark epoxy resin varnish which improves its environmental pollution resistance.</p>	<p>TCL36 coupler contains an internal resistor which provides a suitable dividing ratio @50Hz (as well as 60Hz) for those equipments they require a synchronization signal.</p> <p>It also holds an internal overvoltage gas suppressor which keeps the output voltage below safety limits even in the presence of spikes and overvoltage transient peak on the bus bars.</p> <p>TCL36 couplers are individually tested according to the following international standards: IEC60358; IEC60694; IEC60270</p> <p>It can be installed in vertical position, upside down and in horizontal position.</p> <p>Endurance voltage test showed an expected life (at rated voltage) in excess of 10⁶ hours, i.e. larger than the expected life of any device it should be matched to.</p>

SPECIFICATIONS

Capacitance	310pF ±10%
Capacitor type	Ceramic
Body material	Epoxy resin
Coating varnish	Epoxy resin
High voltage frequency range	50÷60 Hz
Rated Voltage (phase-to-phase)	36kVrms
V _{OUT} @ Rated voltage	2.0V _{RMS}
High pass cut frequency (-6dB)	250kHz
AC voltage withstand	70kVrms
DC voltage withstand	170kVpeak
Lightning pulse withstand	170kVpeak
Creepage distance (IEC60815)	740mm (medium level pollution)
Tan δ	<0.3%
PD level @22.9kV / 50Hz	<2pC
Operative temperature range	-20 ÷ +90°C
Moisture resistance	MIL-STD-202G / Method 106G
Salt atmosphere resistance	MIL-STD-202G / Method 101E
High voltage connection	M8 female thread
Overall Dimensions	Height 340mm; Diameter 145mm
Weight	4.0kg
Connector	BNC



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