

Medium Voltage Inductive Coupling Units

MICU 100A

www.DataSheet4U.com

Features

- High current solution made with high permeability high performance nanocrystalline material avoids saturation problems at high currents.
- Low insertion losses $-6\text{dB} \pm 3\text{dB}$ (@2-40MHz range).
- More electrical safety: High insulation: 5 kV.
- Compact equipment: BNC connector integrated in the coupler (other connections available under request).



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Electrical parameters

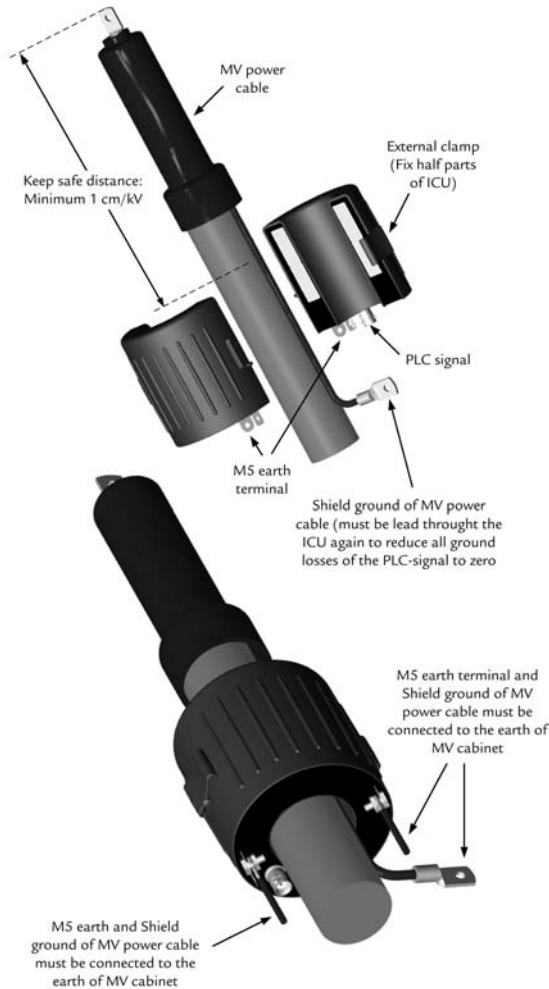
Nominal current		100 A
Rated Voltage		Only depends on the insulation level of the cable
Rated AC withstand voltage		
Rated lightning withstand voltage (1.2/50s)		
Insulation resistance		
Partial discharge level at 1.2 U _N		No discharges possible, coupler is completely at ground potential
Transmission frequency range and attenuation		-6dB ±3dB @2 to 40 MHz
Nominal impedance	Coupling side	20 to 50
	Equipment side	50
Average power in permanence		> +40 dBmW
Harmonic distortion and intermodulation		< -60 dB
Dielectric strength		5 kV
Working temperature		-20°C to 60°C
Storage temperature		-40°C to 85 °C
Climatic category		25/100/21 according to IEC 60068-1
Safety isolation		According to IEC 950

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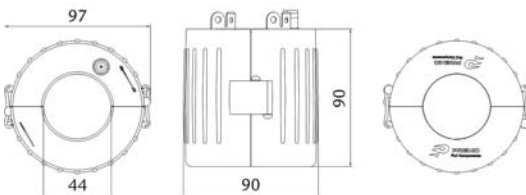
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Installation



Dimensions



Dimensions in mm

Overall dimensions	Inner diameter	44 mm
	Height	90 mm
	Height (including ground connector)	< 115 mm
	Connection to PLC-modem	Female BNC connector
	Connection to Earth	M5 screw
	Typical installation time	10 minutes
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