CURRENT® family

MV BPL coupler
model 9140

Reliable innovation. Personal solutions.
Preface
The Ormazabal CURRENT® family Communication Portfolio provides real-time, Connected Intelligence™ that allows you to cost effectively connect to locations or assets within your distribution grid.
Our MV BPL coupler model 9140, together with the MV BPL modem and the Active Signal Distribution Box, forms the most mature and comprehensive product portfolio available in the market for Medium Voltage Broad-band Power line solutions.
The MV BPL coupler model 9140 is an essential component within the Ormazabal CURRENT® family Communication Portfolio. It is designed for the frequency range of broad band power line technology between 2 MHz and 40 MHz.

Key features and benefits
Compact, lightweight design
Our MV BPL coupler is a lightweight solution: its top and bottom single screw attachments enable fast, easy installation.

Cost effective solution
Together with our MV BPL modem (api-2000-sa), the MV BPL coupler forms a very compelling cost model for medium broad band power line technology that is unrivalled in the industry.

Technical superiority
With low insertion loss and phase-to-ground capacitive coupling, our coupler is a “zero”-maintenance product compliant with IEC 60481 safety requirements.

Durable and safe
Ensured by the durable silicon material and compliance with standards electrical ratings

Interoperable
Our MV BPL coupler works with all CURRENT® family and Ormazabal products as well as 3rd party products.

Integrated Solution
Combined with Ormazabal CURRENT® family network and device management software OpenGrid® Networking, the MV BPL coupler alongside the MV BPL maximizes total Smart Grid benefit for capital invested whilst reducing overall cost and risk. Simply easy to use!

Standard Protocols
Our MV BPL coupler complies with accepted standard ratings and can be installed in any type of air insulated switchgear with nominal voltage of up to 24 kV (line-to-line)

Interoperable
With an industry standard BNC interface, the MV BPL coupler enables seamless integration of not only the Ormazabal CURRENT® family MV BPL modem, but also third party devices.

Technical data

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Standard
IEC 60481
UNE 21333
IEC 60815

Technical features
- Insulation Voltage: 24 kV
- Lightning impulse withstand voltage: 125 kV
- Dielectric Strength: 50 kV, for 1 minute
- Drain coil capacity: 1 A, permanently
- 50 Arms for 0.2 s
- Partial discharges: <10 pC at 15 kV
- Galvanic isolation for communication port: 5 kV
- Arcing distance: 216 mm
- Creepage distance: 625 mm

Environmental features
- Ambient operating temperature: -25 °C to +60 °C
- Storage temperature: -25 °C to +70 °C
- Pollution: Contaminant level D

Mechanical features
- Insulation Material: Silicone
- Signal Connector (BPL): BNC (female)
- RoHS compliant: 2002/95/EC
- Dimensions: See diagram
- Weight: 1.7 kg