



Technical Specification

DC - Characteristics

Diode reverse voltage: 1600V (2 x 800V) DC Current Average: 35A (nom) Peak current 10mS: 1300A Surge Energy Current: 8450A Voltage across device for 1mA current flow: > 0.9V forward/reverse Voltage across device for 10mA current flow: >1.1V forward/reverse.

AC - Characteristics

Xc of capacitor (100,000microF) @ 50Hz: 31.83 ohms ESR of capacitor @ 100Hz: 5 mOhms Impedance of device @ 50Hz: 40 mOhms (estimated) AC current for 1mA current through diodes: 15A AC current for 10mA current through diodes: 20A

Buried pipelines running parallel to high voltage AC power transmission systems can be adversely affected by the close proximity of these overhead lines.

AC Mitigation Devices are used when AC interference is so caused on a pipeline. Because of the inductive coupling, AC voltages between the pipeline and surrounding soil are unavoidable. Induced voltages can reach dangerous levels, causing both a safety hazard to pipeline operating personnel and a risk of corrosion of the pipeline. The units act as blocking devices to DC voltages but allow the discharge of AC current through the earths connected to them; thereby reducing AC interference effects without compromising the pipeline's cathodic protection system. Standard cables are two metres long 16mm² black, green/yellow. Other cable types, lengths and sizes can be supplied to suit customer's specific requirements.

Additional Information

Maximum permissible safety voltages up to which personnel and equipment can be exposed are defined in international safety codes and standards. It is necessary to give consideration to earthing measures to keep the magnitude of AC voltages within acceptable limits.

Weight / Dimensions

Weight: 4.4 kg including 2m cable tails
Dims. (approx): 280 mm long x 125 mm diam.

Note: Due to ongoing technical developments, all stated information is typical and is subject to change without notice or obligation.

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