

Technical datasheet FT-01615-EN

Edition 25/04/2016

FUS125DSB –Electronic Polarization Cell with lightning surge protection 12.5kA 10/350µs for Ex environment.



Domain of use

DC decoupling of cathodically protection metallic parts in Ex zone 1 or zone 2.

Description

FUS25DSB is an encapsulated assembly of silicon avalanche breakdown diode.

Specifications

- Ex protection : II 2 G Ex mb IIB T4 Gb (IECex FTZU 16.0013, FTZU 16 ATEX 0033)
- Dimensions (without terminals) : 120x122x90mm;
- Weight : 1.5kg;
- Nominal DC blocking voltage : 6V
- Operation : bidirectionnal ;
- Nominal DC or RMS fault current : 1A
- Maximum lightning Impulse current : 12.5kA 10/350µs (tested according to EN61643-11)
- AC clamping voltage under DC or RMS nominal fault current : 7V peak
- Voltage protection level under impulse current : 25V
- Enclosure : glass fibre reinforced duroplastic polyester, graphite added with epoxy encapsulation compound. (Color :RAL 9011, graphite black)
- Temperature range of use : -20 / +40°C
- Terminals : 20mm long M8 threaded studs, spring washers included.
- End of life behavior : closed circuit.

Installation instructions

The recommended connection is made with two mounting lug (see mounting section) or with one Ø8mm hole tinned copper lug on 35mm² copper cable and one mounting lug (see mounting section). Total Length of user assembled cables shall be less than 1m.

In case of use for the DC earth decoupling of an electrical equipment, the power supply of the line shall be connected downward a RCD with a sensitivity below 1A, the power supply shall also be protected against overcurrent or short circuit by 50A gG Fuses (IEC60269) or a 50A C curve breaker (IEC60974-2).

In case of use with an imposed current cathodic protection, the total value of the rated current of the overcurrent protections associated with the rectifier or DC generator must be lower than 50AgG for fuses or 50A C curve for breaker.

Aide au descriptif

Electronic Polarization Cell with lightning surge protection 12.5kA 10/350µs for DC decoupling of cathodically protection metallic parts up to 6Vdc (bidirectional) in Ex environment zone 1 or zone 2.

Accessoires et pièces détachées

Please ask for the list of accessories