

Catalogue No: **DSR-M-72C-24**

ELR MINING PANEL MOUNT 72 x 72 24V DC 0.03mA-5A

Power Distribution and Protection > Earth Leakage Protection > Earth Leakage Relays > IME Earth Leakage Relays and Toroids > Panel Mount Mining Earth Leakage Relays > DSRM72 Series 2 Relays



Earth Leakage Relay Mining Panel Mount 72x72 24V DC 0.03mA-5A



- Panel mount relay, 72 x 72mm
- 1 x trip change-over contact
- Second change-over latching contact selectable trip or power fail
- LED indication 20%, 30, 40% & 50%
- Field selectable positive or negative security
- 30mA to 5A sensitivity and up to 0.5s time delay
- Harmonic filter

Representative Photo Only
(actual product may vary based on configuration selections)

SPECIFICATIONS

| | |
|--|---|
| Product Series | DSRM |
| Component Type Power Distribution & Protection | Earth Leakage Relay |
| Details, Connection | Low voltage lines, with TD series, 4 wire. |
| Input Frequency, Nom | 50 Hz |
| Waveform | Sinusoidal (type AC) or chopped pulsating with superimposed D.C. (type A) according to EN60947-2 (annex Band M) IEC60947-2 |
| Operational Frequency, Min | 47 Hz min |
| Operational Frequency, Max | 63 Hz max |
| Unom, Supply Voltage, DC, Nom | 24 V DC |
| Umin, Supply Voltage, DC, Min | 20 V DC |
| Umax, Supply Voltage, DC, Max | 26 V DC |
| Burden, Rated | 2.5 VA |
| Power Dissipation, Max | 3.5 W |
| Number of Setpoints | 14 |
| Setpoint Range(s) | 0.03 ... 5A Configurable |
| Configuration Method | Potentiometer / DIP-Switch |
| Trip Time, Min | 50 ms |
| Trip Time, Max | 500 ms |
| Details, Indicator | Power on: green LED "ON". Transformer connection failure: red LED "TRIP" and relay "TRIP" switching. Ring current transformer-relay connection failure: red LED "TRIP" blinking + "TRIP" relay switching. |
| Display Technology | LED Sequence |
| Reset Type | Manual local or Remote |
| Alarm Function | Yes |
| Details, Alarm | TRIP state memorisation: red LED "TRIP" + relay latching |



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| | |
|---|---|
| Number of Alarm Contacts | 2 |
| Contact Configuration | 2 CO |
| Reverse Polarity Protection | Yes Y/N |
| Details, Output(s) | 1 SPDT latching alarm contact and 1 SPDT latching contact selectable alarm or power fail alarm. |
| Installation Category | III |
| Pollution Degree | 2 |
| Ui, Rated Insulation Voltage | 450 V (rms) |
| Uimp, Impulse Withstand Voltage | 5 kV |
| Terminal Type | Fast-On Crimp Terminal(s) |
| Mounting | Panel Mount |
| Material, Body / Housing | Plastic/PC (Polycarbonate) self-extinguishing material |
| IP Rating, Front | IP40 |
| IP Rating, Terminals | IP20 |
| Height, Cutout | 68 mm |
| Width, Cutout | 68 mm |
| Frequency Tolerance | 47...63 Hz |
| Non-operating residual current (IEC60755) | 50% IΔn |
| Intervention time t: | 0.05, 0.1, 0.15, 0.2, 0.3, 0.4, and 0.5 s |
| Operating Temperature, Min | -5 °C min |
| Operating Temperature, Max | 60 °C max |
| Storage Temperature, Min | -40 °C min |
| Storage Temperature, Max | 70 °C max |
| Humidity Type | Suitable for tropical environments |
| Current set point IΔn | 0.03, 0.06, 0.1, 0.2, 0.3, 0.4, 0.5, 2 ranges x1, x10 |
| Standards Compliance | AS/NZS 2081.3 EN 60439-1 EN 61010-1 EN 50081-1 EN 50082-2 EN 55011 IEC 60755 |
| Power On | Green LED |
| Visible Trip Indicator | Red LED |
| Relative Humidity, Average | 50 %RH |
| Width | 72 mm |
| Height | 72 mm |
| Depth | 75 mm |
| Weight | 0.28 kg |
| RCD Type, AS/NZS 60947-2 | A |
| IΔn, Leakage Current, Max | 5 A |

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REFERENCES

IECEX Certificate -

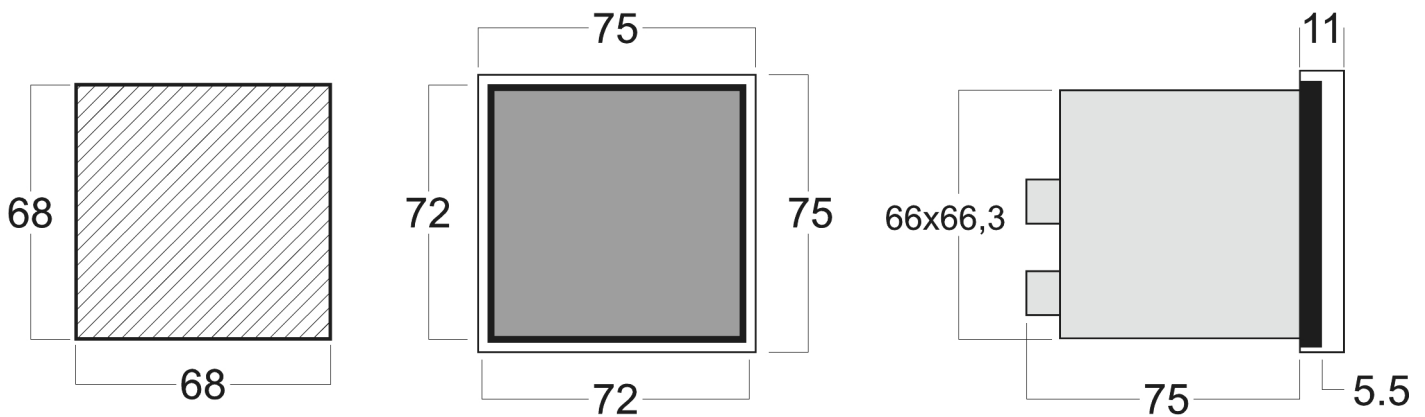
Supplier Declaration of Conformity: -

Installation Guide: -

User Manual: -

Manufacturer Datasheet: -

Manufacturer Catalogue & Product Selection: -



Dimension Diagram

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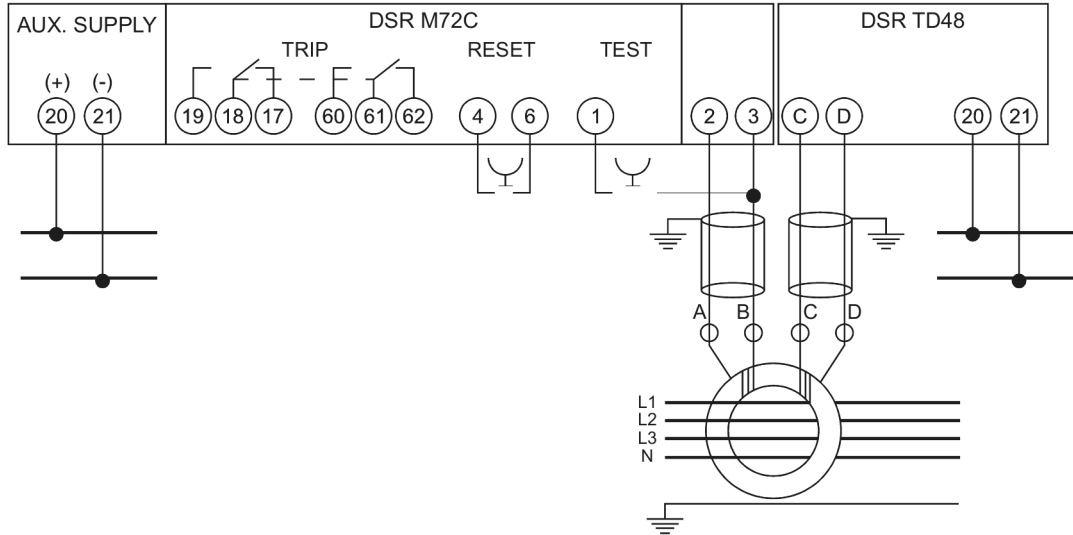
Setting 1 OPTION

AL.2 = alarm with 2 SPDT output contacts

(Select contact output type option using DIP switch located on relay fascia)

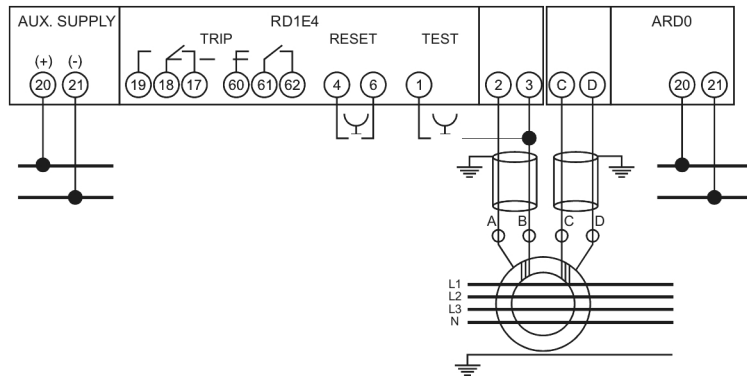
S 291/117 = wiring diagram number

S 291 / 117



Connection / Wiring Diagram

S 291/117



Technical Diagram

DSRM72C110_dCONN-501