

Catalogue No: **DSR-M-110VC**

ELR MINING KIT PANEL MOUNT RELAY & TEST UNIT 110V AC 0.03-5A

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 Kits



- Standard AS/NZS2081
- Core balance earth leakage relay
- Panel mount 72 mm relay
- Panel mount 48mm test device
- Field adjustable
- 4 wire toroid connection
- Adjustable IΔn up to 5 A
- IΔn LED indication 20, 30, 40, 50% setting
- Adjustable trip time up to 0.5 seconds
- 2 change-over latching contacts
- Selectable power fail or alarm contact
- Local or remote reset/ test
- Selectable negative or positive security
- Automatic permanent test
- 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, AC, Nom	110 V AC
Umin, Supply Voltage, AC, Min	97 V AC
Umax, Supply Voltage, AC, Max	127 V AC
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	No 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 55011 EN 50082-2 IEC 60755
Power On	Green LED
Visible Trip Indicator	Red LED
Relative Humidity, Average	50 %RH
Weight	0.28 kg
RCD Type, AS/NZS 60947-2	A
IΔn, Leakage Current, Max	5 A

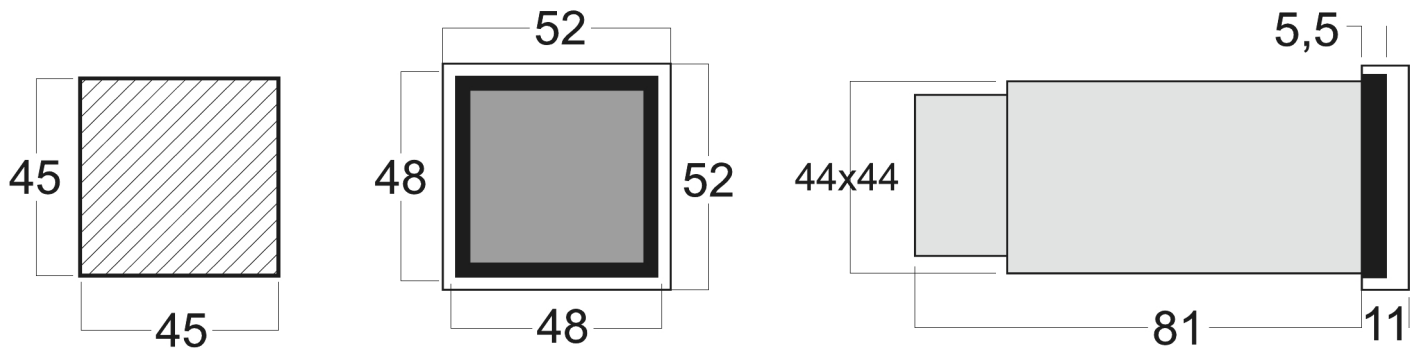
REFERENCES

IECEX Certificate	-
Supplier Declaration of Conformity:	-
Installation Guide:	-
User Manual:	-
Manufacturer Datasheet:	-
Manufacturer Catalogue & Product Selection:	-

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Dimension Diagram

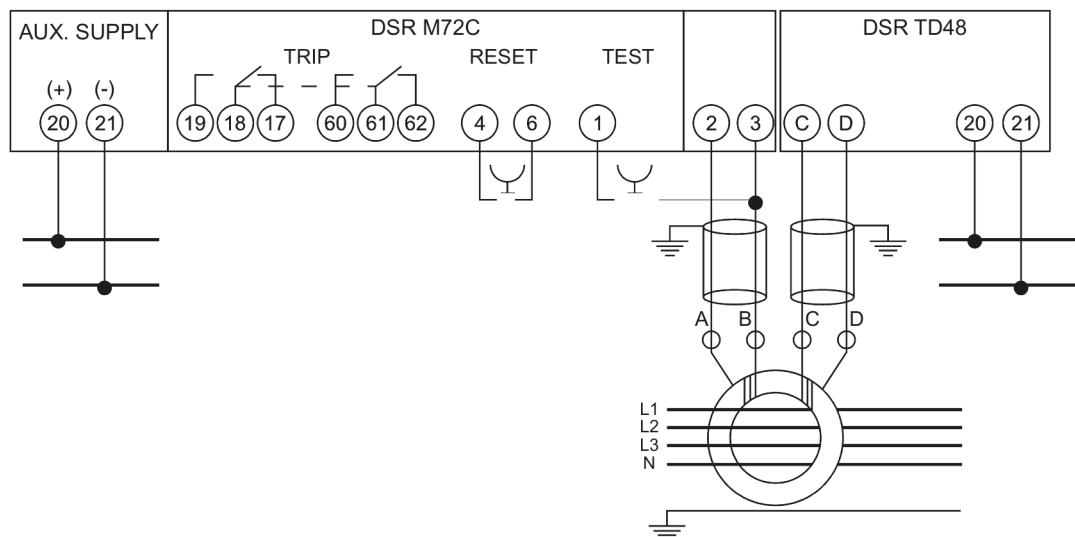
Setting 1 OPTION

AL.2 = alarm with 2 SPDT output contacts

S 291/117 = wiring diagram number

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

S 291 / 117



Connection / Wiring Diagram