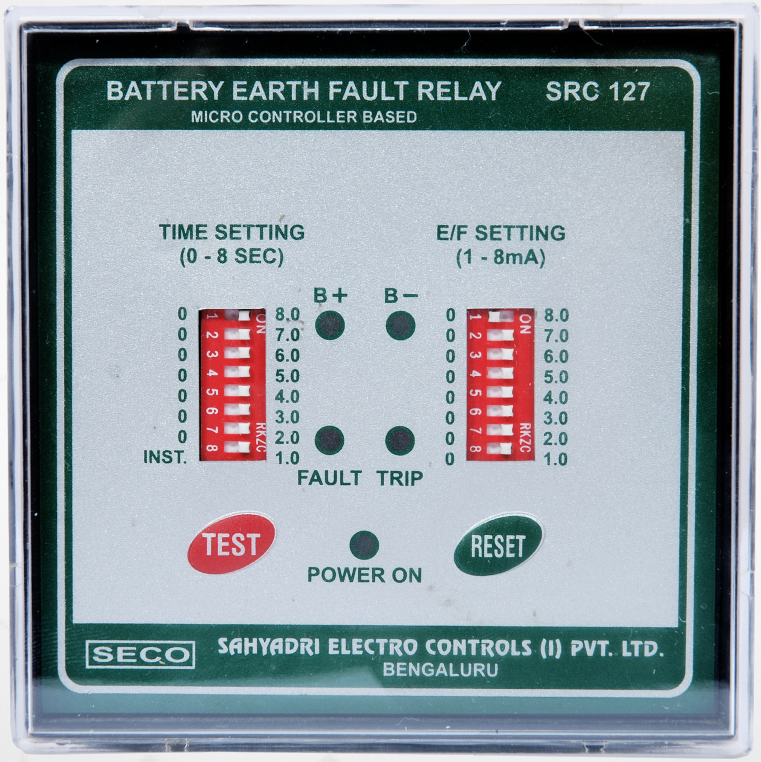
SAHYADRI®

ISO 9001:2015 Certified

SAHYADRI ELECTRO CONTROLS (I) PVT. LTD.

SECO



BATTERY EARTH FAULT RELAY

(TYPE: SRC 127)

10, VINAY COMPLEX, 1ST CROSS, RAJGOPAL NAGAR MAIN ROAD, GANAPATHI NAGAR, PEENYA III PHASE, BANGALORE – INDIA - 560058

Mail: mkt@secoindia.co.in & sales@secoindia.co.in, Web: www.secoindia.co.in

SAHYADRI (SECO) make **Battery Earth Fault Relay (SRC127)** is designed with Microcontroller based advanced technology to measure the leakage current between the earth and the batteries +ve & -ve. When the current is more than the set value, the output relay operates as per the set time delay. The output relay contacts are used for Tripping and Annunciation. Earth fault Trip LED Indications are there for both +ve and –ve of the Battery. Output relays are self-resettable and Indications are Hand Resettable. This unit is used in Battery charger panels.

FEATURES:-

- Microcontroller based design
- Indication for +ve Earthed or –ve Earthed
- Wide setting range
- Test facility
- Setting through Dip switches
- Fault & Trip indications by LED
- 2 sets of output contacts
- 96 Sq. mm front Facia
- Low depth
- Suitable for Flush mounting or Projection mounting
- Polycarbonate front cover for protection

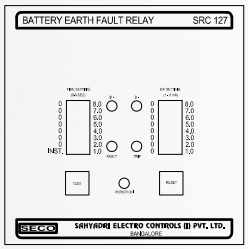
TECHNICAL SPECIFICATIONS:-

- **Aux. Supply:** 110V / 230V AC 50 hz
- **Rated DC voltage:** 24, 30, 48, 110, 220, 250V DC
- **DC Current setting:** 1 mA to 8 mA insteps of 1mA
- **Operating Time setting:** Inst. & 1 Sec to 8 Sec insteps of 1 sec
- **Output contacts:** 2 sets of change over contacts (NC-C-NO)
- **Contacts Rating:** 10A@24V DC or 230V AC
- **Indications :** Power ON, Healthy, Faulty, Trip indication & +ve/-ve Earthed indication
- **Accuracy operating value:** +/- 5%
- **Accuracy operating time:** +/- 3%
- **Burden on battery voltage:** 10 W
- **Burden on Aux. supply:** < 10w
- **Front Facia size:** 96 x 96mm
- **Panel Cutout:** 92 x 92 mm
- **Depth**: 120mm

STANDARD COMPLIANCE :-

- Accuracy: IEC 60255-3
- Dielectric Test: IEC 60255 - 27

WIRING AND PANEL CUTOUT DETAILS



1	2	3	4	5	6	7	8	9
NO1	C1	NC1	NO2	C2	NC2	X	X	X
	RELAY-1			RELAY- 2				

SERIAL NO.	
TYPE/ART NO.	
RATED VOLTAGE	
AUX. SUPPLY	

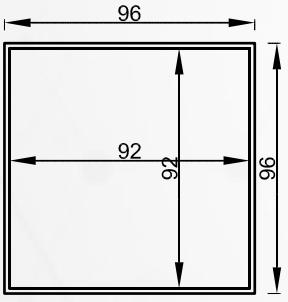
RATED I/P VOLTAGE
AUX. AC SUPPLY ____ VDC

230	0	E	+	--	E-1	X	X	X
10	11	12	13	14	15	16	17	18

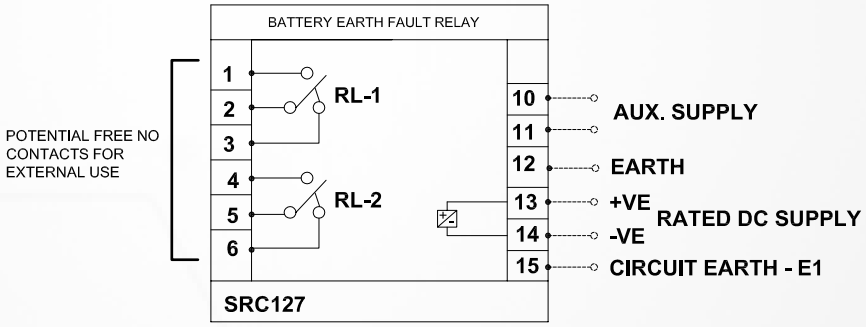
BATTERY EARTH FAULT RELAY (BEFR) TERMINAL DETAILS

TER. NO	DESCR.
1, 2 & 3 4, 5 & 6	NO1, C1, & NC1 NO2, C2, & NC2 POTENTIAL FREE NO CONTACTS
10 & 11	AUX. SUPPLY 230 V AC, 50Hz.
RATED DC SUPPLY	
13	+ VE 110 VDC
14	- VE 110 VDC
15	CIRCUIT EARTH-E1
SL. NO.	

NOTE:
REMOVE TERMINAL NO. 15 - E1 OF BEFR RELAY TYPE NO. SRC127 DURING HV TEST.



PANEL CUTOUT - 92X92 mm
BEZZEL - 96X96 mm



TYPICAL WIRING DIAGRAM

ALL DIMENSIONS ARE IN MM.

DRAWN BY	HSV	REV. NO.	0	ISSUED ON	02.07.20	DRAWING TITLE: APPLICATION DIAGRAM OF BATTERY EARTH FAULT RELAY	DRG NO.	SH.NO	01	SECO
APPD. BY	BSM			DRAWN ON	02.07.20		SECO/AD/SRC127	CONTD.	-	

SIDE VIEW

BACK VIEW

SAHYADRI®

ISO 9001:2015 Certified

No 10,Vinay Complex, 1st Cross, Rajgopal nagar Main Road,
Ganapati Nagar, Peenya 3rd Phase,
Bangalore-560058

080-4149 2637 / +91 9035048537 / +91 9448408537 / +91 9980544028

After Sales / Service : +91 9606040824

mkt@secoindia.co.in / sales@secoindia.co.in / manjunatha@secoindia.co.in