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beyond boundaries

SLR 14S

SELF POWER RELAY

SMART GRID & POWER IT

Salient Features

- Relay gets energized either from Current, Auxillary Power Supply, Front USB or Internal Battery
- Site selectable 1 A & 5A CT Input User friendly Local HMI
- Two Stages Over Current and Two Stage Earth Fault Protection Relay
- IDMT Characteristics - NI, VI, EI, LTI, 35, 1.35, 0.65 & DTL for Phase and Earth Fault
- Potential pulse output for direct triggering the Circuit Breaker Coil
- RS-485 Modbus
- USB port for communication with PC/Laptop
- Cold Load Pickup
- Circuit Breaker Failure Protection
- Unbalance Protection
- Remote Trip
- Remote Protection Block
- 1 or 2 Setting Groups
- Storage of latest 99 nos. of Fault / Events log with 1 ms Time Stamp Resolution
- IEC 60870-5-103 and/or MODBUS-RTU Communication Protocol

Protection Functions and Settings

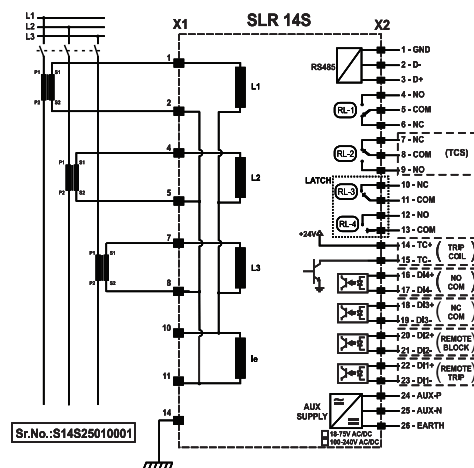| Device No.	Relay Functions	Settings
51	IDMTL Over Current Protection	20% to 400% in steps of 1%
51N	IDMTL Earth Fault Protection	20% to 400% in steps of 1%
50	High Set Over Current Protection	50% to 400% in steps of 1%
50N	High Set Earth Fault Protection	50% to 400% in steps of 1%
50BF	Circuit Breaker Failure Protection	0.01s to 2s
46	Unbalance Protection	10% to 100%, in steps of 1%

Casing

- (WxHxD): (134 x 180 x 214) mm ~
- Cutout size (WxH): (108 x 156) mm ~
- Degree of Protection: IP 54
- Weight: 2.5 Kg ~
  Draw out / Fixed type

Technical Specifications

Rated Current (In)	1A/5A
Frequency	50 Hz
Time Multiplier	0.01 to 2.0 in steps of 0.005
Low Set Delay	0.00 sec to 200.00 secs
High Set Delay	0.00 sec to 20.0 secs
CB Fail Timers	0.01 sec to 600 secs
Accuracy	$< \pm 5\%$
Auxiliary Power Supply	18 - 60V AC/DC 85 - 265V AC / 110-300V DC

Contact Ratings:

Relay (Latch/Non Latch)	1OA@ 230V AC /8A@ 28V DC
Trip Coil	24V / 12V@0.2Ws / 50msec ON Pulse
Digital O/P Digital I/P	05 nos 04 nos
Indications	LED: 9 LED indications LCD: 16 x 2 Alphanumeric

Burdens for:

OC & EF CT	< 0.2VA@5A
Aux. Power	Quiescent approx. 3W / Operating approx. 6W

Cold Load Pickup Setting:

CLP I>	10% to 3200%
Delay	0.01 to 20 secs
Blocking function	ALU>I/>1 >/EF>/EF>>

Temperature:

Operational Range	-10° C to + 55° C
Storage Range	-20° C to + 70° C
Ref. Standard	IEC 60255 / IS 3231

Typical Terminal Diagram

- There is a continuous effort at Stelmec to keep abreast of latest technology in line with customers' requirements and hence the product specifications are subject to change.
- Products described in this catalogue are manufactured and supplied according to Certified Management System ISO 9001:2015.
- Product variants provide different combinations of features / specifications listed above & need not necessarily be a part of single variant.

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