

In the field of power system protection, Stelmec offers digital relays which are enabled with recent technologies. Stelmec relays provide the optimal management to the electrical network which is based on the reliability, availability and the functionality of devices used to control & protect the network. The SLR140C monitors and protects the electrical networks against all types of phase to earth and phase to phase short circuits.



Salient Features

- Site selectable 1A & 5A CT Input
- Two Stages Over Current and Two Stage Earth Fault Protection Relay
- IDMT Characteristics NI, VI, EI, LTI, 3s, 1.3s, 0.6s
 DTL for Phase and Earth Fault
- Storage of latest 99 nos. of Fault & 999 nos. of Events log with1 ms Time Stamp Resolution.
 User friendly Local HMI
- Hardware and Software Self-Diagnosis
- NDR Controlled Earth Fault Protection
- Circuit Breaker Fail Protection
- Trip Circuit Supervision
- Multi-shot Autoreclosure
- Cold Load Pick up
- 1 or 2 or 4 Setting Groups Auto or Manual Selection
- IEC 60870-5-103 and/or MODBUS-RTU Communication Protocol
- Inbuilt Disturbance Recorder
- User Configurable DI / DO
- Broken Conductor Detection
- Negative Phase sequence Protection
- Inbuilt Password Protection
- Thermal Overload Protection
- Auto Test Mode of healthiness of Relay

SLR 140C

NUMERICAL OVER CURRENT AND EARTH FAULT PROTECTION RELAY

Protection Functions and Settings					
Device No.	Relay Functions	Settings			
51	IDMTL Over Current Protection	2% to 400%, in steps of 1%			
51N	IDMTL Earth Fault Protection	2% to 400%, in steps of 1%			
50	High Set Over Current Protection	5% to 4000%, in steps of 1%			
50N	High Set Earth Fault Protection	5% to 2000% in steps of 1%			
50BF	Circuit Breaker Failure Protection	0.01s to 2s			
79R	Auto Re-Close Relay	Multi shot (optional)			

Casing

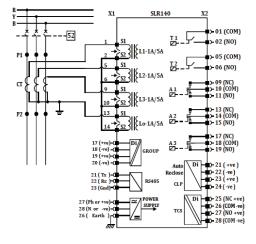
- Overall dimentions (W×H×D): $(181 \times 135 \times 214)$ mm \sim
- Cutout size (H×W): (156×108) mm ~
- Degree of Protection: IP 54
- Weight: 2.5 Kg ~
- Draw-out / Fixed Type

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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 secs		
High Set Delay	0.00 sec to 20.0 secs		
CB Fail Timers	0.01 sec to 600 secs		
Accuracy	< ± 5%		
Auxiliary Supply Range	18 - 265V AC / DC		
Contact Ratings:			
Relay	15A @ 230V AC / 15A @ 28V DC		
Auxiliary Relay	6A @ 230V AC / 6A @ 24V DC		
Digital O/P Digital I/P	08 nos 08 nos		
Indications	LED: 9 LED indications		
	LCD: 16 x 2 Alphanumeric		

Burdens for:		
OC & EF CT	< 0.6VA@5A / < 0.1VA@1A	
Aux. Power	< 12W–operating relays activated / 8W–under quiescent condition	
Cold Load Pickup Setting:		
CLP I>	10% to 3200%	
Delay	0.01 to 20 secs	
Blocking function	ALL/I>/I>>/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 customer 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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