

Prok dv's®

An ISO 9001-2008 certified Company

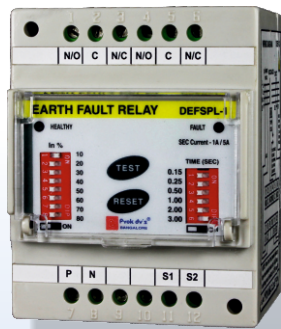
Total reliability in power system protection & monitoring

... a mark of quality



EARTH FAULT RELAY

IEEE Device code-50N



FEATURES:

µC BASED EFR

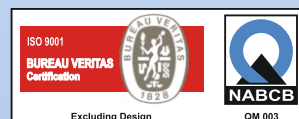
- ✓ Compact
- ✓ IDMT (4 IEC curves), Definite Time & Instantaneous
- ✓ Wide setting ranges
- ✓ Fully Digital acquisition & processing of data
- ✓ Wide operating voltages
- ✓ LCD display of operated current & fault current
- ✓ Rugged and Tropicalized design

SOLID STATE

- ✓ Static device
- ✓ Definite time
- ✓ Wide setting ranges
- ✓ Compact size
- ✓ Led indication of Fault & Healthy status
- ✓ Rugged & Tropicalized design

APPLICATIONS:

- ✓ Earth Fault Protection for Generators / Alternators
- ✓ Earth Fault Protection for Transformers & Feeders



PARAMETERS	MPEFSPL / DMPEFSPL (μ C)	EFSPL / DEFSPL (Solid State)
Auxiliary Voltage	85-275 V AC/DC or 50-550V AC/DC	110V/230V/415V/550V, AC 50Hz, 48/110/220 VDC.
Frequency	50Hz	50Hz
Rated Current-In	1A / 5A (Field Selectable)	1A or 5A Factory set
Burden on CT	<0.2VA	<0.2VA
Sensitivity Settings Plug Setting Range(PS) In % of the relay Rating.	PS Range: (5%-80%) of In. in steps of 5%	PS Range: (10%-80%) of In. in steps of 10%
Definite Time Settings in Sec	0.0-20 Sec. (200 Steps) in steps of 0.10 Sec.	0.15 to 3.0 Sec (6 Steps) Steps : 0.15, 0.25, 0.50, 1.00, 2.00 and 3 Sec.
IDMT Curves	4 IDMT Curves : • Normal Inverse (NI) • 1.3 Sec • 3.0 Sec • Long Time Delay (LTD)	NA
Time Setting Multiplier (TMS)	(0.1-20) in steps of 0.05	NA
High Set Enable/Disable Option	Available	NA
High Set	(0.5-16) In in steps of 0.1	NA
Time for High Set Operation	(0.0-1.6) Sec. in steps of 0.1 Sec	NA
CBCT size for EFR	Circular: 40mm,65mm,100mm,150mm,200mm, 250mm & 300mm with Secondary 1A only	Circular: 40mm,65mm,100mm,150mm,200mm, 250mm & 300mm with Secondary 1A only
Contact Capacity	8A@30V DC, 8A@250V AC	8A@30V DC
Contact type	NC-C-NO Two change over	NC-C-NO One change over (Optional – 2Change Over)
Operating temperature(°C)	-5°C to +55°C	-5°C to +55°C
Standard	IEC - 60255	IEC – 60255
Relay Setting Mode	Setting through push button • Selection of the relay rating-5A or 1A (In) • PS - selection • Curve Selection • TMS - selection for IDMT • Time - for DEFT • Relay TEST • RESET	Setting through DIP switch • Plug setting • Definite time operation
Display / Indication	Back-Lit LCD display Two line 8 characters • Trip value of the current w.r.t. Secondary of CT • Set PS value. • Red LED-DEFT/IDMT Trip	LED for indicating the status • Green LED-Healthy • Red LED-Trip
Relay Test Facility	Available through push button	Available through push button
Mounting Type	Flush / Din	Flush / Din
Dimensions in mm	Flush : 96 x 96 x 70 Din : 80 x 95 x 75 (W x H x D)	Flush : 96 x 96 x 70 Din : 80 x 95 x 75 (W x H x D)
Panel cut out in mm (Flush type)	90 x 90 \pm 0.1 mm	90 x 90 \pm 0.1 mm



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