ISO 9001-2015

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Total Reliability in Power System Protection, Monitoring & Control

Product Catalogue

Reputed Manufacturers and
Exporters of Electrical Power System Protection
and Digital Energy Meters

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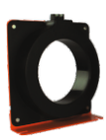
EARTH LEAKAGE RELAY

IEEE DEVICE CODE : 64





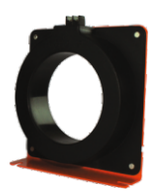



- Consistent Reliability With Accuracy
- Fixed or Variable Sensitivity, available from 30mA to 30A
- LED & LCD Display for Visual Indication Fault
- Detection of CBCT Open (In Digital Models only)
- True RMS measurement of Leakage Current and Fundamental Extraction is Also Available
- Test & Reset Facility for Testing the healthiness of the Relay
- High Barrier Connector at rear end for easy termination and Safety Standard
- Serial RS 485-Communication Port With Modbus Protocol (Optional)
- Available with Tape Wound, Molded Case and Resin Cast CBCT in Circular, Rectangular & CUSTOMIZED Sizes
- Models-Static: EL-01 (1-8A), EL-02(30-300mA), EL-03(300mA-3000mA), EL-04(1-4A), EL-05(30mA-3000mA), EL-06(1-10A), EL-07(4-12A),ELSPL-01(300mA-30A), ELSPL-02(30mA-30A),
- 2D ELR Model in Static & Digital
- Digital; MPEL-01(300mA-12000mA) MPEL-02(30mA-3000mA), MPELSPL-01(300mA-30A), MPELSPL-02(30mA-30A),
- AUX Voltage : 85-275V AC/DC, 50-550V AC/DC, 12V/24V/30V DC
- Optional: External Test and Reset Function
- Note: 10 mA for Specific Application can be Supplied

EARTH FAULT RELAY

IEEE DEVICE CODE : 50N


- Microcontroller Based
- Wide Auxiliary Operating Voltage 85-275V AC/DC, 50-55V AC/DC,12V/24V/30V DC
- Rugged, Robust and Tropicalised Design
- Consistent with Repeat Accuracy
- Wide Current Setting Range
- LED/LCD Indication for Healthy and Fault Status
- Manual/Auto Reset and Low Burden on CT Secondary
- Field Configurable IDMT Curves, Definite Time and Instantaneous
- Fully Digital Acquisition and Processing of data
- Display of Measured Current & Fault Current
- Model No: EFSPL (10%-80%) MPEFSPL(5%-80%)
- 2D EFR- Static & Digital Models (5%-80%)


RESTRICTED EARTH FAULT RELAY

IEEE DEVICE CODE : 64/87N

- Microcontroller Based-Site Selectable: 1A/5A
- Supplied along with Stabilizing Resistor
- Wide Auxilliary Operating Voltage 85-275V AC/DC, 50-550V AC/DC, 24V/30V DC
- Rugged and Compact Design
- 2 Line 8 Character Back-Lit LCD Display
- Display of Set Value & Measured Value
- Model: MPREFR

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NUMERICAL OVER CURRENT AND EARTH FAULT RELAY

IEEE DEVICE CODE : 50,50N,51,51N,46BC, 46,74TC,50BF

- Three Phase, Non-Directional Over Current Relay with Instantaneous, Define Time and High-Set Function
- High Set Non-Directional Earth Fault Relay with Instatanteous Time, Definite Time and High-Set Function
- Protections - Negative Phase Sequence (46), Broken Conductor(46BC),Trip Circuit Supervision(74TC), Harmonic Restraint,Circuit Breaker Failure(50BF)
- Modular Integrated Draw-Out and Non Draw-Out System for Field Adaptability and Tropicalised Design (MIDOS)
- Programmable Digital Inputs(DI) and Digital Outputs(DO)
- 4 Shot Auto-Reclosure
- Enabling/Disabling of High-Set
- RS 485 Communication Port with Modbus Protocol (Remote) and USB (Local)
- Choice of 8 Inverse Time Characteristics for Over Current & Earth Fault Separately Selectable Trip Characteristis NI, EI, RI,1.3Sec, 3Sec, LTD, VI, 0.6Sec & Definite Time,
- Definite Time Trip Characteristics for both Phase & Earth
- Fault and Event Recording with Date & Time (99Faults and 250 Events)
- 2 Line 16 Character Industrial Grade LCD display with Back-Lit module for display of Set Values and Measured Values
- Low-set Non- Directional Earth Fault Inverse Definite Minimum Time(IDMT) or Definite Time Characteristics
- Auxiliary Supply Input : 24V to 275V AC/DC
- Model: PNA series (Also available in 3 O/C & E/F, 2 O/C & E/F, 3 O/C, One E/F)

IDMT OVER CURRENT AND EARTH FAULT RELAY

IEEE DEVICE CODE : 50,51

- Fundamental Extraction Type
- Display of Line Currents (Ir,Iy,Ib & Ie)
- 2 Set of Potential Free contacts-Configurable
- CT Ratio Site Selectable
- Compact and ideal for Industrial Environment
- 2Line 8 Character Back-Lit LCD Display
- IDMT (IEC curves), Definite Time & Instantaneous Trip Characteristics
- Model: MPOCEFR-31
- Auxiliary Supply: 85-275 Volts AC/DC

REVERSE POWER RELAY

IEEE DEVICE CODE : 32

- Filed Selectable CT-1A/5A
- Protection of Generator against Reverse Power, Suitable for Solar Application Also
- Display of Voltage Current,Import & Frequency
- Wide Auxiliary Voltage range from 85-275V AC/DC/ 24VDC
- Test facility, allowing the user to check the NO and NC Contacts of the Relay
- Fault Records : Ten Faults With RTC
- Model: MPRPR

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MOTOR PROTECTION RELAY

IEEE DEVICE CODE : 37,46,49,49S,51

- Accurate Mesurement Fundamental Extraction Technique
- Earth Fault Sensing Setting Selection Provided by means of Potentiometer
- Motor Rated Current(IM) Selection by means of Potentiometer
- Thermal Replica of Motor Overload condition
- Continuonus monitoring of motor IDLE/STOP,COLD,WARM,HOT,I> & Various Fault status through LED indication
- Protection against UB(Unbalance),UC(Undercurrent),LR(Locked Rotor)
- EF(Earth Fault) can be enabled or disabled Using Dip-Switch Setting
- Motor Trip Class 10,10A,20 &Trip Class 30 can be configured using Dip-Swtich If none of trip class is selected, by default Class 20 will be Selected
- With FDM module (PDMMPR Series - Optional)
- Programmable Number of Starts (PDMPRNEXM)
- Drawout Enclosure With CT Shorting (PDMPRNEXM)
- Maximeter With Time Stamp along with Communication (PDMPRNEXM)
- Modbus Communication with RS485 Port Selectable Baud Rate & Device ID, Local Communication with USB
- Models: PDMMPR-01 (1A-20A),PDMMPR-02(10A-32A),PDMMPR-03(20A-64A),PDMMPR-04(30A-96A)

VOLTAGE RELAY

IEEE DEVICE CODE : 27, 47 & 59

- Monitors the Line to Line Voltage Continuously
- Built-In ON Time Delay and Trip Delay Time Settings
- Field Configurable Reset Gap Voltage
- Direct Display of Line to Line Voltage in 3 Phase models
- Phase Fail and Phase Reversal Protection in 3 Phase models
- Indication of Fault through LED/LCD
- Independent Potential Free output Contacts for Under Voltage (UV), Phase Fail and Phase Reversal
- Model: MPVR/DMPVR
- Over Voltage & Under Voltage Settings in Absolute Values

LINE VOLTAGE MONITOR

IEEE DEVICE CODE : 27, 47 & 59

- Continuous Display of measured Voltage
- Accurate reading for Balanced and Unbalanced Voltages
- Wide range of Auxiliary Input: 85 to 275V AC/DC
- Independent Contacts for both Under & Over Voltage
- Built In Under & Over High-Set, for Over Voltage and Under Voltage
- Model-LVM, VM-2D

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NUMERICAL UNDER & OVER VOLTAGE RELAY

IEEE DEVICE CODE : 27,47,59

- IDMT & Definite Time Characteristics
- Negative Sequence Component Detection
- Non-Volatile Memory for Data Retention
- High-Set Feature For Under Voltages and Over Voltages
- Very Low Burden on measurement and Auxiliary Circuits
- Field Selectable System Voltages 110V/220V/380V/400V/415V/440V
- High Drop Off / Pick Up Ratio
- Model: PNV NSP 3P/3W, 3P/4W & 1Phase (Selectable)

PHASE FAILURE RELAY

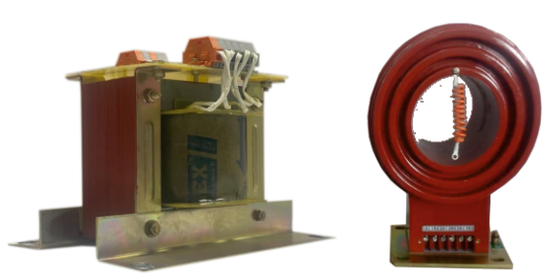
IEEE DEVICE CODE : 46,47

- Phase Reversal and Unbalance Detection / Phase Failure
- Low Power Consumption
- Selectable Unbalance Setting in Percentage
- Auto/Manual Reset Operation
- Fail Safe Mode
- System Voltage 110V ,220V, 415V & 440V AC
- Model : PFR

HTCT'S, PT'S & CONTROL TRANSFORMER

Technical Specification & Parameters

Ref. Standard	**IS/IEC**
Um	**Up to 11kV**
Test Voltages	**Up to 28/75 kVp**
Rated Primary Current	**Up to 3200A**
Rated Secondary Current	**1A or 5A**
Rated Short Time Current	**26.2kA**
Rated Peak Current - Idyn	**2.5 x Ith**
Core(s), Number of Cores	**Determined on the basis of Accuracy class, Over current, Burden**
Insulation Class	**B or Higher**
Frequency	**50Hz/60Hz**



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AUXILIARY RELAY

IEEE DEVICE CODE : 30, 30ABC

- Electromechanical Design
- Suitable for Tripping Signaling in Protection and Control System
- High Resistance to Shock and Vibration
- Flexible User Friendly Standardized Contact Arrangement
- Hand Reset & Flag Indication
- Consistent and Repeat Accuracy
- Model: PAR-H

MASTER TRIP RELAY

IEEE DEVICE CODE : 86

- Voltage operated single element Electro-Mechanical Hinged Armour Type Relay
- Available in Hand Reset and Self Reset type
- Suitable for Tripping, Signaling in Protection and Control System
- High Speed with Positive Operation
- High Resistance to Shock and Vibration
- Compact Panel Mounting Case
- Model : PLR

TRIP CIRCUIT SUPERVISION RELAY

IEEE DEVICE CODE : 74TC

- Microcontroller Based
- Low Level Measuring with Opto-Isolation
- Selectable Time Delays by Dip-Switch
- Low Burden on Auxiliary Voltage
- Reset-Auto/Manual Selectable through Dip-Switch
- Opeartion Status Indication by LEDs
- Sensing Voltage 24-285V DC
- Model : PDTCSR-01

NEUTRAL DISPLACEMENT RELAY (µP Based)

- Accurate and Reliable Measurement of Residual Voltage.
- Display of Voltage Magnitudes, Using 8 Character 2 Line LCD
- Used Friendly Setting Parameters through Key Pad
- Wide Range for Selection of Residual Voltage
- Fast Tripping Response (<500mS) When Phase and Neutral are Interchanged
- Industrial Rugged Design in Din Rail Mounting as well as Panel Mounting.
- Healthy, Trip Status provided through LED Indications.
- Auto Reset Provided on Healthy Voltage Resumption
- Note: Specify Open Delta or Star Connection

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AUTO SOURCE CHANGEOVER CUM CURRENT LIMITER

- While Monitoring the Generator Supply, Allows only Limited Current as per Current Limit
- Current Limiting While Monitoring the DG and EB will be Factory Set (Optional)
- Whenever the Load Exceeds the Preset Limit, Power is Automatically Switched-Off and Resets and Trips again if the Overload Still Exists. If the Over loading on DG Still persists the ACCL enters Lock Out Mode after 5 ON & OFF Cycles
- The Unit can be Reset Manually By RESET Switch In ACCL or External MCB
- On the Resumption of EB supply ACCL allows the Full Load Current
- Records the Energy for Both the Sources (EB & DG)
- Over Voltage and Under Voltage Protection (Factory Set)
- Mechanical as well as Electrical Inter-Lock (in Contractor Logic models)
- Factory Programmable ON / OFF Cycles
- Din/Surface Mounting
- ABS Plastic and Sheet Metal Enclousure with Ventilation for Natural Cooling
- Available in Contractor Logic and Relay Logic
- Available in Sheet Metal and ABS Enclosures
- ACCL Available upto 125A Current in DG side
- Model No.: PACCL 1020, PACCL 1032, PACCL 3325, PACCL 3363, PACCL 3125- PACCL 3163, PACCL 3380M,
- PACCL 33100M, PACCL 33125
- LED Indications for Load on DG, Load on EB, Trip / Lock Out.

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DIGITAL THREE PHASE DUAL KILOWATT HOUR (KWH/ENERGY METER)

- True RMS Measurements.
- Accuracy Class 1.0
- 2 Line, 16 Char Back-Lit LCD Display.
- Display Parameters:

  1.E.B Energy
  2.D.G Energy
  3.Phase Voltages (Vr,Vy, and Vb with respect to Neutral)
  4.Phase Currents (Ir, iy and ib)
  5.Line Frequency.
  6.Individual and Average Power Factor (Lag or Lead)
  7.Active Power-R-ph, Y-ph, B-ph & Total Power.
  8.a) EB ON Hours b) DG ON Hours

- LED Indications: 1. Presence of Phase (R,Y,B) 2. Reverse Polarity 3.Presence of DG Source
- Confirms to IS – 13779/EC – 62052-11 & IEC-62053-21
- CT Ratio- Selectable from 5/5 to 3000/5.
- RS 485 MODBUS Communication Port.
- Compact and Ideal Design for Industrial Environment.
- Accurate Reading for Balanced and Unbalanced Load.
- 15,000 Impluse/Kwh

THREE PHASE VOLTAGE, CURRENT AND VAF METER

- Accuracy Class 0.5 / 1.0
- Microcontroller Based
- Built In Transducer, Selector Switch and Scroll / Hold Facility.
- Field Selectable CT Ratio.
- Compact in Size with Aesthetic Value.
- 7 Segment LED Display.
- Tropicalised Design and Time Tested.
- Low Power Consumption.
- Continuous Display of Phase Voltage, Phase Current and System Frequency

BATTERY CHARGERS

- Wide Input Voltage Tolerance and High Efficiency.
- Overload, Short Circuit & Reverse Polarity Protection.
- Output Power upto 480W
- Works with Natural Cooling
- LED Indications.

For more information, please contact us at:

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