



EARTH LEAKAGE RELAY

IEEE DEVICE CODE : 64

- Consistent reliability with Accuracy
- Fixed or Variable Sensitivity available from 30mA to 30A
- LED & LCD display of visual indication of fault
- Detection of CBCT open(In Digital μ C based models only)
- True RMS measurement of Leakage Current
- Test & Reset facility for testing the healthiness of the relay
- High barrier connector at rear end for easy termination and safety standard
- Serial RS485 communication port with Modbus protocol(optional)
- Available with Tape wound, Moulded case and Resin cast CBCT in circular and rectangular customised sizes
- Models : Static : EL-01(1-8A),EL-02(30-300mA),EL-03(300-3000mA),EL-04(1-4A),EL-05(30-3000mA), EL-06(1-10A),EL-07(4-12A),ELSPL-01(300mA-30A),ELSPL-02(30mA-30A)
- Digital : MPEL-01(300-12000mA),MPEL-02(30-3000mA),MPELSPL-01(300mA-30A),MPELSPL-02(30mA-30A)



EARTH FAULT RELAY

IEEE DEVICE CODE : 50N

- Microcontroller based
- Wide Auxiliary Operating Voltages 85-275V AC/DC,50-550V AC/DC, 24V/30V DC
- Rugged, Robust and Tropicalised Design
- Consistent and Repeated 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
- LCD display of measured Current & Fault Current
- Model no : EFSPL(10% - 80%),MPEFSPL(5%-80%)



RESTRICTED EARTH FAULT RELAY

IEEE DEVICE CODE : 87N

- Microcontroller Based
- Supplied with Stabilizing Resistors
- 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 of Fault Current
- Model : MPREFR





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Total Reliability in Power System Protection, Monitoring & Control

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,Definite Time and High-Set function
- High Set Non-Directional Earth Fault Relay with Instantaneous Time, Definite Time and High-Set function
- Protection against 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 matrix for Digital Inputs(DI) and Digital Outputs(DO)
- 4 shot Auto-Reclosure
- Enabling/Disabling of High-set
- RS485 Communication port with Modbus Protocol(Remote) and USB(Local)
- Choice of 8 Inverse Time Characteristics for Phase Fault & Earth Fault separately selectable like Normal Inverse,Extremely Inverse,Restricted Inverse,1.3sec Curve,Long Time Delay,Definite time 0.6sec curve
- Definite Time Curves for both Phase & Earth
- Fault and Event recording with Date & Time
- 2 line 16 character industrial grade LCD display with backlit module for display of set values and measured values
- Low-Set Non-Directional Earth Fault Relay with Inverse Definite Minimum Time IDMT or Definite Time characteristics
- Reliable wide range of Auxiliary Supply input of 23-110V DC or 85-275V AC/DC
- Model : PNA4xx series (Also available in 3 O/C & 1 E/F, 2 O/C & E/F, 3 O/C, 1 O/C & E/F)



OVER CURRENT RELAY

IEEE DEVICE CODE : 50,51

- Fundamental Extraction Type
- Display of Line Currents(Ir,Iy,Ib)
- 2 set of Potential free contacts-configurable
- CT Ratio Site Selectable from 5/5A to 5000/5A for 5A
- Compact and ideal for Industrial Environment
- 2 line 8 character back-lit LCD Display
- IDMT(IEC curves), Definite Time & Instantaneous Trip Characteristics
- Model : MPOCSPL



REVERSE POWER RELAY

IEEE DEVICE CODE : 32

- Protection of Generator/Prime movers against Reverse Power
- Visual indication of pick-up and relay tripping
- Continuous display of Sensing Voltage,Current,Frequency and Power Factor with Lead/Lag Indication
- Wide Auxiliary Voltage range from 85-275V AC/DC
- Test facility, allowing the user to check the NO and NC Contacts of the Relay
- Model : MPRPR





MOTOR PROTECTION RELAY

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

- Accurate and True RMS measurement
- Earth Fault Sensing provided by means of Potentiometer with marking
- Motor Rated Current(I_m) selection by means of Potentiometer with markings
- Thermal Replica of Motor Overload condition
- Continuous 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 Dipswitch setting
- Motor Trip Class 10,Class 10A,Class 20,Class 30 can be configured using Dipswitch
If none of the trip class is selected, by default Class 20 will be selected
- Programmable no. of starts
- Drawout Enclosure with CT shorting
- Maximeter with Time Stamp along with Communication
- Front end Communication through Modbus Communication with RS485 port Baud Rate of 9600bps for fixed slaved ID(optional)
- Models : PDMMPR-01(1A-20A),PDMMPR-02(10A-32A),PDMMPR-03(20A-64A),PDMMPR-04(30A-96A) with FDM module PDMPRNEXM(1A/5A)



VOLTAGE RELAY

IEEE DEVICE CODE : 27,47

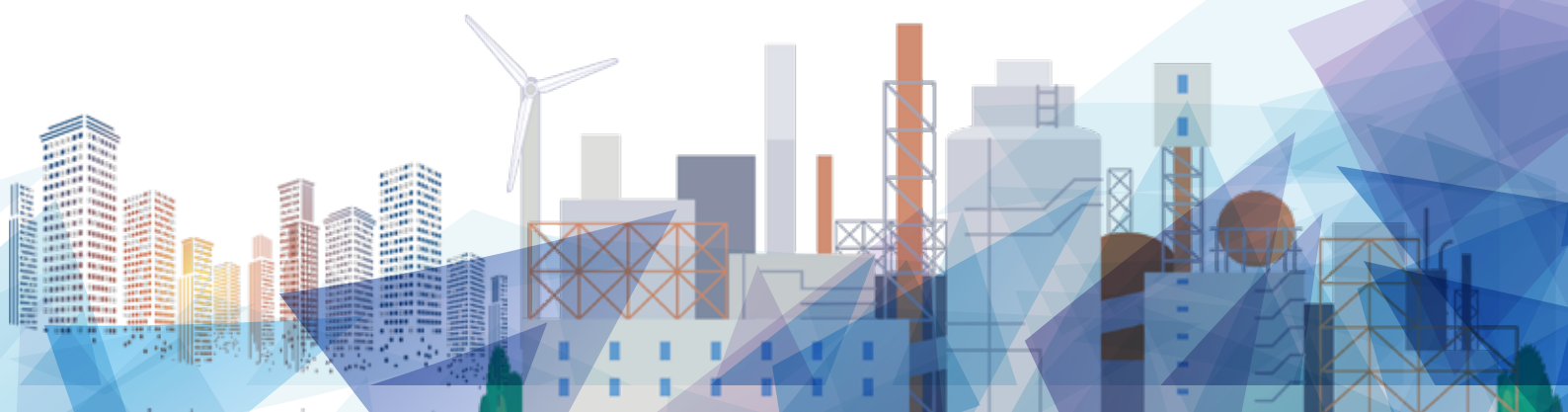
- Monitors the Line to Line Voltage continuously
- Built in on Delay and Trip Delay Time settings
- Field Configurable Reset Gap voltage
- Direct Display of Line to Line Voltage in 3 Phase models
- Phase Fail and Phase Reversal Protection in 3 Phase models
- Set value of Under Voltage(UV) and Over Voltage(OV) in terms of set voltage directly
- Indication of fault through LED & LCD
- Independent potential free output contacts for Under Voltage(UV),Phase Fail and Phase Reversal
- Model : MPVR/DMPVD



LINE VOLTAGE MONITOR

IEEE DEVICE CODE : 27,47

- Continuous display of measured Voltage parameter
- Accurate reading for balanced and unbalanced
- Wide range of Auxiliary Input for both AC and DC
- Independent contacts for both Under & Over Voltage
- Built in Under & Over High-Set trip
- Model- LVM, VM-2D





INTELLIGENT POWER FACTOR CONTROLLER

IEEE DEVICE CODE : 55

- Accurate Compensation even in the Presence of Harmonics
- Real Time Display of Total Power Factor(PF) and Displacement Power Factor(DPF)
- User entered parameter is stored in Non-volatile Memory(EEPROM)
- Wide range of Switching Sequence of Capacitor Banks i.e. 12 user selectable capacitor sequences
- Alarms for Distortion,Over Compensation and Under Compensation
- Target PF 0.7 lag to 0.7 Lead selectable through Keyboard Display
- Over and Under Voltage Protection
- Voltage Harmonic Protection
- Display of Voltage and Current Harmonics
- Programmable Capacitor Discharge Time and ON/OFF time
- Low Burden on CT
- Model : PNF-04(4 stage),PNF-06(6 stage),PNF-08(8 stage),PNF-10(10 stage),PNF-12(12 stage),PNF-14(14 stage),PNF-16(16 stage)



NUMERICAL UNDER & OVER VOLTAGE RELAY

IEEE DEVICE CODE : 27,47,59

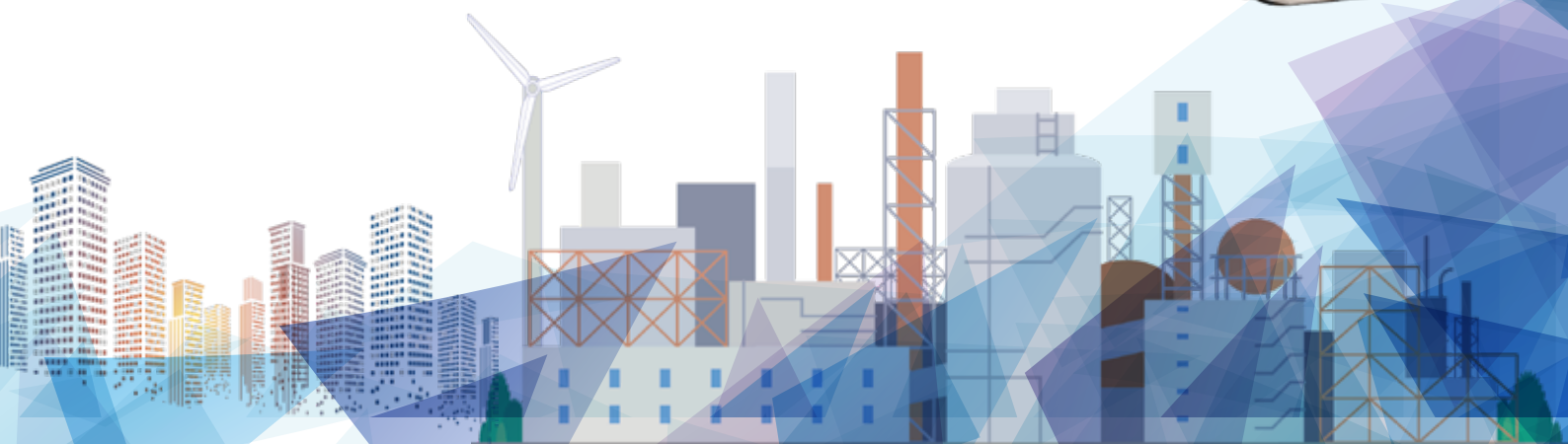
- IDMT & Definite time characteristics
- Negative Sequence Component Detection
- Non-volatile Memory for Data Retention
- High-Set feature for Under Voltages and Over Voltages
- Very low burden on measurement and Auxiliary circuits
- Field Selectable System Voltages 110V/220V/380V/400V/415V/440V
- High drop/pick off ratio
- Model : PNV NSP



PHASE FAILURE RELAY

IEEE DEVICE CODE : 46,47

- Phase Reversal and Unbalance Detection
- Low Power Consumption
- Selectable Percentage Unbalance Settings
- Auto/Manual Reset Operation
- Fail Safe system
- Model : PFR





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TRANSFORMER DIFFERENTIAL RELAY

IEEE DEVICE CODE : 87,50,51,50N,51N,50G,51G,46/50BF

- Three Phase Differential Protection with Harmonics Restraint(87) and Instantaneous Differential Protection
- Restricted Earth Fault Protection(87G) in either Primary or Secondary(MMI selection)
- Three Phase Time and Instantaneous Over Current(50/51) Protection on HV & LV side
- Ground Time(51G) and Instantaneous Over Current protection(50G) either on LV or HV side
- Current Unbalance(46),Breaker Failure(BF)(LV & HV side)
- Event & Fault Recording
- Multi Protocol communication MODBUS RTU,IEC-103,IEC-61850
- Programmable Matrix for DI/DO
- Oscilloscope Data Recording
- Time Synchronizarion via SNTP
- Breaker Control(Open/Closed) using Front Keys
- Model no. : PDTPR



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 or Self Reset Contacts
- 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 Current with Opto-isolation
- Selectable Time Delays to avoid Spurious Signals through Dipswitch
- Low burden on Auxiliary Voltage
- Reset- Auto/Manual selectable through Dip-switch
- Operation Status Indication by LEDs
- Sensing Voltage 24-285V AC/DC
- Operation status indication by LEDs
- Model : PDTCSR-01





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AUTO SOURCE CHANGEOVER CUM CURRENT LIMITER

- While monitoring the Generator Supply, allows only limited current as per Assigned Load
- Current Limiting while monitoring the DG and EB will be factory set (optional)
- Whenever the load exceeds the preset limit, power is automally switched-off and resets and trips again if the overload still exists. If the overloading on DG still persists the ACCL enters Lock out mode after 5 ON & OFF cycles
- The unit can be Reset manually by Reset Switch or External MCB
- Over and Under Voltage Cut-off limit for EB and DG(optional)
- 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)
- LED indications for stages - EB/DG/Trip
- Mechanical (as well as Electrical Inter-lock in Contactor Logic models)
- Factory Programmable Alterable Lockout cycles
- Din/Surface Mounting
- ABS Plastic and Sheet Metal enclosure with Ventilation for Natural Cooling of Contactor
- Available in Contactor Logic and Relay Logic
- Available in Sheet metal and ABS enclosures
- ACCL available till 125A current limiting in DG side
- Model no. : PACCL 1020,PACCL 1032,PACCL 3325 - PACCL 3363, PACCL 3125 - PACCL 3163,PACCL 3380M, PACCL 33100M,PACCL33125





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

HSN CODE : 90303310

- True RMS measurement
- Accuracy class 1.0
- 2-line, 16 character Backlit LCD display
- Display parameters : 1. EB Energy
2. DG Energy
3. Phase Voltages(V_r, V_y and V_b with respect to neutral)
4. Phase Currents(I_r, I_y and I_b)
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 Phases(R, Y, B) 2. Reverse Polarity 3. Presence of Source
- Confirms to IS-13779/IEC-62052-11 & IEC-62053-21
- CT Ratio selectable from 5/5 to 3000/5
- RS485 MODBUS Communication Port
- Compact and Ideal design for Industrial Environment
- Accurate reading for Balanced and Unbalanced load



THREE PHASE VOLTAGE, CURRENT AND VAF METER

HSN CODE : 90303310

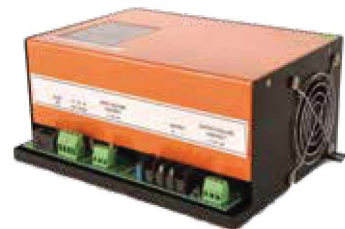
- Accuracy Class 0.5/1.0
- Microcontroller based
- Built in Transducer, Selector Switch and Scroll/Hold Facility
- Field Selectable CT ratio
- Compact in size with Aesthetic value
- 2 line, 16 character backlit LCD display/7 segment LED display
- Tropicalised design and Time Tested
- Continuous display of Phase Voltage, Phase Current and System Frequency



BATTERY CHARGERS

HSN CODE : 90303310

- Wide Input Voltage Tolerance and High Efficiency
- Overload, Short Circuit & Reverse Polarity Protection
- Very Low Load & Line Regulation and Output power up to 480W
- Works with Natural Cooling
- LED indications



VRAJ LINK

House of Changeover & Automatic transfer switch

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