ISO 9001-2015

CATALOGUE

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Total Reliability in Power System Protection, Monitoring & Control

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 of visual indication of fault
- Detection of CBCT open(In Digital µC 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 Confirurable - 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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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 fumction
- 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 tim 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

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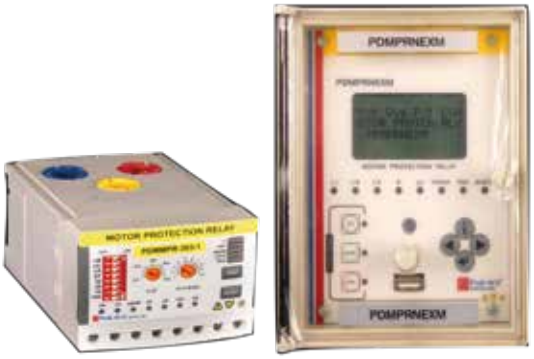
MOTOR PROTECTION RELAY

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(Im) 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 usimg 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)

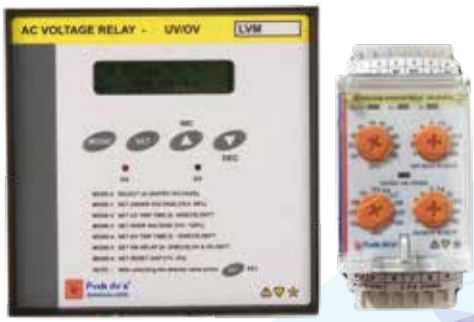
VOLTAGE RELAY

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

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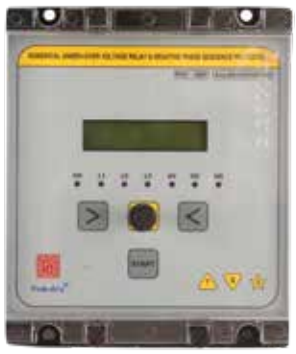
INTELLIGENT POWER FACTOR CONTROLLER

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 enterered 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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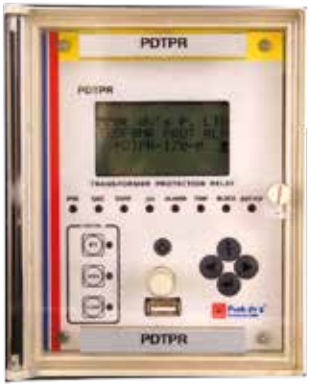
TRANSFORMER DIFFERENTIAL RELAY

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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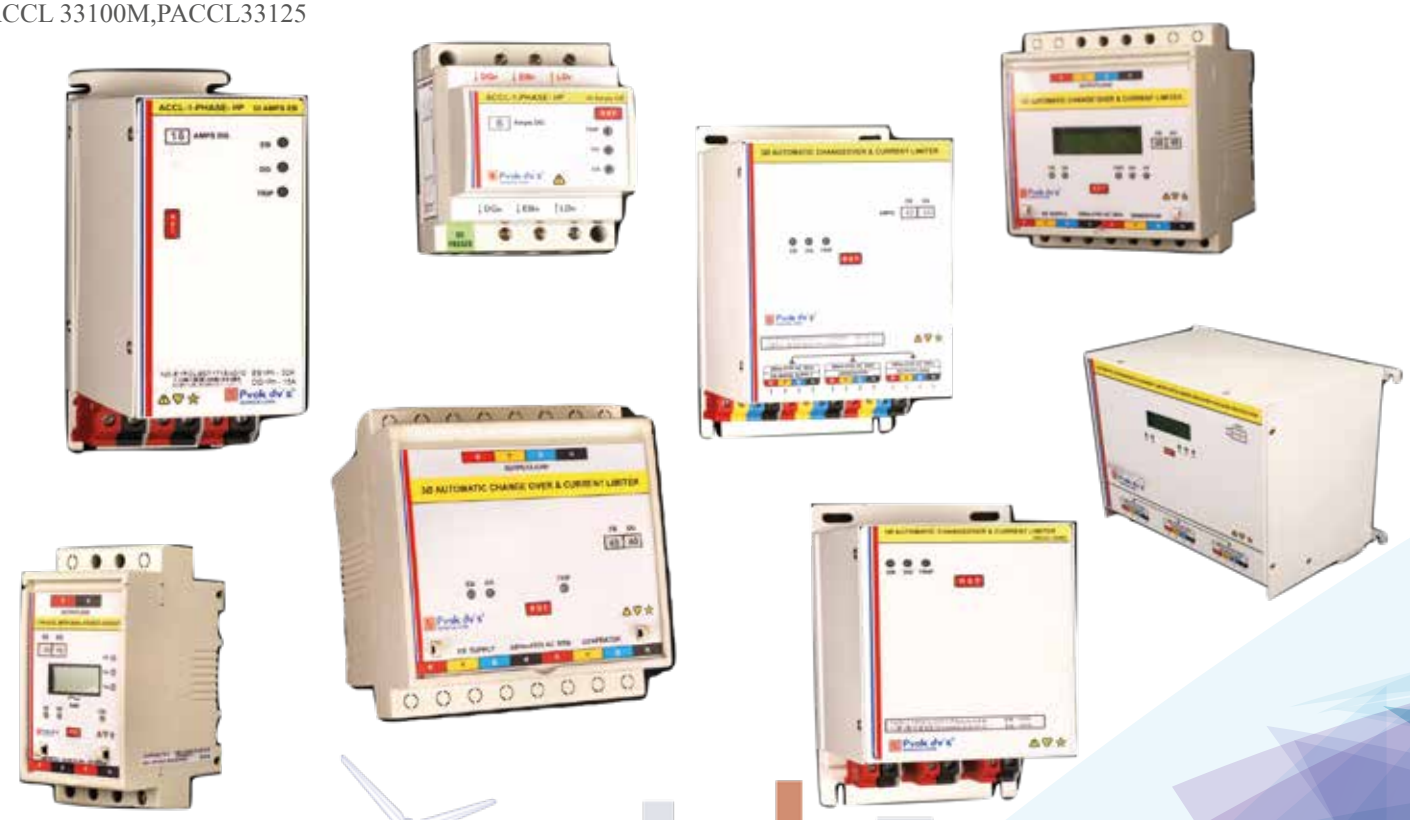
AUTO SOURCE CHANGEOVER CUM CURRENT LIMITER

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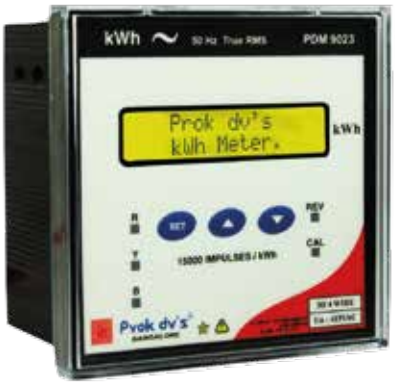
DIGITAL THREE PHASE DUAL KILOWATT HOUR (KWH/ENERGY METER)

HSN CODE : 90303310

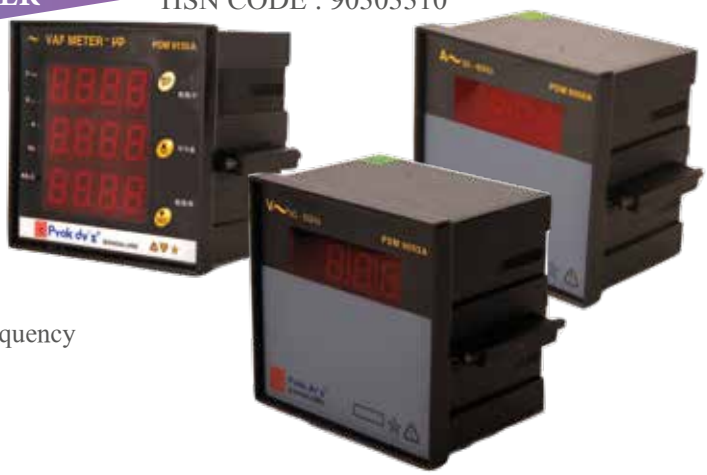
- True RMS measurement
- Accuracy class 1.0
- 2-line,16 character Backlit LCD display
- Display parameters : 1. EB Energy
  2. DG Energy
  3. Phase Voltages(Vr,Vy and Vb with respect to neutral)
  4. Phase Currents(Ir,Iy and Ib)
  5. Line Frequency
  6. Individual and Average Power Factor(Lag or Lead)
  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 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

For more information, please contact us at:
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