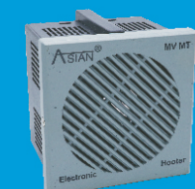
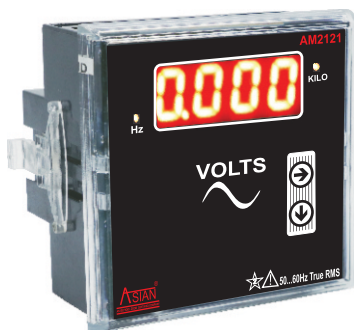


ASIAN®

AN ISO 9001 : 2015 CERTIFIED COMPANY

CATALOGUE





"Asian - The indicating panel meters" provides a wide range of digital panel meters for accurate & reliable measurement of almost all electrical quantities with class 1.0 & 0.5 accuracy. The series contains various models of AC/DC versions for industrial / Commercial applications with high resolution display feature. Asian Series models are compact digital meters incorporated with the unique feature of onsite CT & PT ratio programmability.

ASIAN SERIES OFFERS

- True RMS Measurement
- Accuracy class 0.5 and 1.0 for 5% to 120% of AMP Input range
- Available in AC/DC Variants
- On site CT/PT ratio programmability.
- On site connection configuration from 3 phase 3 wire & 3 Phase 4 wire and vice versa in three phase meters.
- High resolution LED
- Provides range of Auxiliary supply from 80V-300V AC
- Continuous Overload of 1.2 times the nominal value display 9999 count.
- 4KV insulation withstands capability
- Comply with international safety standards

Single Phase Variants

1. Volt Meters
2. Ammeters
3. Frequency meters

Three Phase Variants

1. Volt Meters
2. Ammeters
3. Power factor meters
4. Active power meters
5. Meters (kWh)

DC Variants

1. Volt Meters
2. Ammeters

APPLICATION SUMMARY

- Laboratory test benches.
- Industrial automation
- Power control panels
- Generator control panels
- Substation panels
- Co-generation
- Switch board instruments
- Power distribution Panels
- Sub Stations, Machine Control
- Motor Control, Center Panels

TECHNICAL SPECIFICATION

Electrical Mechanical		Mechanical Size	
Auxiliary supply	90-270VAC	Panel cutout	96x96mm
Burden on aux supply	<3VA	Enclosure	92x92mm
Burden on measuring terminals	0.5 VA	Terminals	Poly carbonate
		Weight	Tag screw
			<300gms
Measuring Ranges		Environmental	
AC Volt Meter	0-63.5V	Temperature	-10° C to +50° C (Operating)
(Single Phase/Three Phase)	0-110V		-25° C to +70° C (Storage)
	0-240V	Humidity	95% non- condensing
	0-415V	Temperature	0.01% per C Tropical
AC Ammeter		Coefficient	
(Single Phase/Three Phase)	1A/5A	Display	
Frequency Meter	40-70Hz	Digit Range	9999
Power Factor Meter			
(Single Phase three Phase)	0-415V	Display Resolution	0.001 auto decimal
(3 Ph Active/Reactive)	1A/5A		0.000001 (For Energy Meter)
Multi Function Meter	0 to 360		auto decimal and LED indication
(Single Phase/Three Phase)		Digital Height	14.2 mm / 7 Segments
Energy Meter			
Three Phase Active / Reactive	Voltage & Current values	Protection Class	IP 20 as Per IEC 60529
Input Voltage (3Ph 3 wire/4 wire)	0-415V		
Input Current	1A/5A site selectable	(for Terminals)	IP 50 as Per IEC EN 60529
		Device Safety	As per IEC 61010
		Insulation Level	4.0 KV
DC Voltmeter	0-200mV, 0-2V, 0-20V		
	0-200V, 0-75V, 0-750V		
DC Ammeter	0-200mA, 4-20mA		
	0-2A, 0-5V, 0-20A (with Shunt)		
	0-9999A (External Shunt) 0-75mV		

DIGITAL AVF METER

SPECIFICATION GUIDE

Models	Single Phase			Three Phase					DC	
	V	A	F	PF	V	A	KWh	kW	A	V
AM 2121	✓									
AM 2123		✓								
AM 2124			✓							
AM 3021				✓						
AM 2041					✓					
AM 2043						✓				
AM 3320							✓			
AM 1123									✓	
AM 1121										✓
AM 4032								✓		

Note :- Auxiliary Supply Required Except Ammeter & Voltmeter

DESCRIPTION

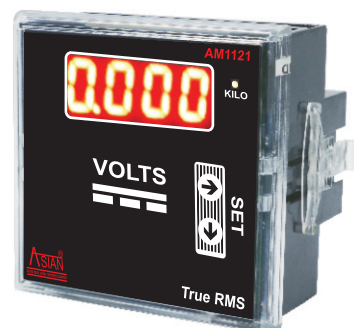
Multifunction Meters are based on 32Bit, 100Pin Microprocessor, with 24 Bit Six Channel Sigma Delta Front end Analog to Digital Converters. The Measurement accuracy of Class 0.5 can be achieved on the practical range of operation. The TVM (Trivector Meter) are 4 Quadrant True RMS Meter and have advanced feature of Maximum Demand and RTC Based Load Surveys.

SPECIAL FEATURES:-

- 32Bit, 100 Pin, Processor
- SMT Technology
- Various Choice of Bright FND/LCD STN display
- 2-4 keys for programming input
- Higher Class of Accuracy
- 2 Quadrants to 4 Quadrants
- Provision of RTC based Load Survey
- RS 232/RS 485 interface
- MODBUS Protocol
- Integration of 1 or 2 Potential free contacts

APPLICATION:-

- Industrial Control Panels
- Power Project Control Panels
- Energy Auditing and Data Logging
- Industrial Atomization
- Smart Building Control Panels
- Energy Managing and Monitoring Equipments
- Testing Laboratories
- Diesel Generator Control Panels





Asian Meter and metering system comes from a state of art & metering company following ergonomics, our philosophy is to offer high quality, innovative products at reasonable price. MF Range is a 96*96 panel mounted polyphase digital meters are suitable for various applications like high voltage and low voltage switchgear panels, control and relay panels and online energy monitoring systems (SCADA/EMS/DAS)

FEATURES

- Compact and easy installation
- CT/PT Ratio Programmable
- Precise Metering
- Easy to read display
- Better accuracy & reliability than analog meter
- Color- coded terminal board label helps ensure accurate wiring
- Safeguard access to setup parameters with unique password protection
- Accuracy class : 0.5 and 1.0
- True four quadrant metering
- Metrology LED output configurable for active, reactive and apparent energy
- Accuracy readings even at very low current
- Favorite page can be selected
- Reverse polarity indication
- Support of MODBUS RTU on RS 485 / RS 232

	Am2081	Am4081	Am5011	Am4011
Use on LV and HV system	✓	✓	✓	✓
Accuracy of the meter class 1.1/1.5	□	□	□	□
Instantaneous & rms values				
Current, Total, per phase & Neutral	✓	✓	✓	✓
Voltage, Average, Phase to Neutral & Phase	✓	✓	✓	✓
Frequency, to Phase	✓	✓	✓	✓
Active power (W) Total & per Phase		✓	✓	✓
Reactive power (Var) Total & per phase		✓	✓	✓
Apparent power (VA) Total & per phase		✓	✓	✓
Power factor Total & per phase		✓	✓	✓
RPM, Between V & I, Ph1, Ph2, Ph3 For generator only, speed calculated on generator voltage output and number of machine poles	✓	✓	✓	✓
Energy values				
Active (Wh)			✓	✓
Reactive (VARh)			✓	✓
Apparent energy (Vah)			✓	✓
Export/Import				
Power quality measurement				
Total harmonic distortion % current, voltage, per phase				✓
Other measurements				
Run hours Operating time for meter in hours	✓	✓	✓	✓
Load hours Operating time for load in hours		✓	✓	✓
INTR Number of interrupts	□	□	□	□
Communication				
RS-485 port	□	□	□	□
Modbus protocol	□	□	□	□
By Default	✓			
Optional Features	□			
Not Available	—			

TECHNICAL FEATURES

Family	Am4011
Rating/ Phase / Class	3x230V, 3Ph, 3X -/5Amp, CI-1, 50Hz
Size	96x96
Display Type	FND Display
CT Ratios	Password Protected Field Programmable CT
Auxiliary Supply	230Vac/ 24V Dc
Power Supply	Switch Mode Power Supply with Dual Isolated Output
Parameters	Auto & Manual Scroll
1	Vr/Vy/Vb
2	Vry/Vyb/Vbr
3	Ir/Iy/Ib
4	Frequency in Hz
5	Pfr/ Pfy/Pfb/Pf
6	KWr/KWy/KWb/KW
7	KVAr/KVAy/KVAz/KVA
8	KVAr/KVAy/KVAz/KVA
Annunciators	Customized on LCD
Customization of parameters	Single Line Customized FND is optional

The KVR Controller is used to control the demand of a system. The Applicant is use to secure the system at overload conditions and also helps in saving the MD penalties

UNIQUE FEATURES

- Programmable kVR Setting
- Programmable CTR Ratio
- Password Protected
- Alarms & Controls
- Relay Outputs
- Meter Reset Option
- Bright Three Line FND / LCD Display

RPM METER AM-2500 - AM2501

AM-2500 Ready to use display solution for all the analog data coming from your 4-20mA sensors.

AM-2501 Ready to use display solution for all the analog data coming from your 0-10mA sensors.

Accuracy: Class 1 & 0.5. Password protected programming. 0V value can be programmed from 0 to 9999K. 10V value can be programmed from 0 to 9999K. Lower value to higher value & vice versa can be set using password protected programming. Optional programmable relay and tripping time up to 180 seconds. Auto-scanning time less than 1 seconds. Data logging facility can also be provided as Optional. Aux: 90-300V AC. Sunlight readable display for mounting outdoors and viewing indirect sunlight Metering Standard: IEC 62053-10

HOUR METER AM-2100

Displays Run Hour of any system.

Accuracy: 1 sec.

Resolution: 1minute or 1hour(i.e HH.MM or HHHH) .

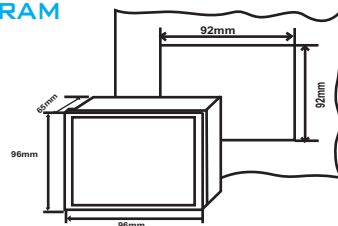
Relay Output for alarm can be provided.(optional)

Metering Standard: IEC62052-11

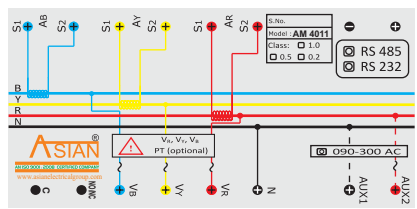
SPECIAL FEATURES

Sampling Rate
Communication Rs485
Protocol
Relays
Potential free Contacts
Controlling Triacs
Microprocessor
Memory Load Survey
Password
Protection
Error Display
RTC
IS
PCB
IP
Insulation

CUTOUT DIAGRAM



CONNECTION DIAGRAM





The Asian Energy Meter series are easy to operate, compacting size, cost effective meters that offer the basic measurement capabilities required to monitor an electrical installation.

Characterized by their rugged construction, compact size, and low installation costs, these state-of-the-art energy meters are ideal for control panel, residential apartments, malls and housing society

The Asian Energy Meter series are available in four different versions to better fit specific applications:

- AM Series - AM 3320, AM 3310
- AM Series - AM 3041, AM 3040

APPLICATION

- Single Source Metering - Dual Source Metering - Separate Load Control Limits for EB & DG

ENERGY SAVINGS

- Measure efficiency, reveal opportunities and verify savings.
- Sub-bill tenants for energy costs.
- Allocate energy costs to departments or processes.
- Reduce peak demand surcharges.
- Reduce power factor penalties.
- Leverage existing infrastructure capacity and avoid over- building.

MAIN CHARACTERISTICS ACCURATE METERING

The Meter Conforms To Accuracy Class 1.0/0.5

EASY TO READ DISPLAY

The bright, alphanumeric, 15mm high LED display provides 2 lines for measurement values with 4 digits per line. The display auto-scales for Kilo, Mega and Giga values. Auto scrolling mode allows for easy reading.

QUICK AND EASY INSTALLATION

Setup is done through the front panel keys. Direct connection for metering voltage inputs up to 480 Vac L-L.

COLOR-CODED TERMINAL BOARD LABELLING

The color-coded label on the terminal board helps ensure accurate wiring.

SECURE SETTINGS

Safeguard access to setup parameters with unique password protection.

A key pad lock lets you display a user selected page by default.

TECHNICAL SPECIFICATION

Electrical

Connection type	CT / PT operated
CT /PT Programming	Primary/Secondary (1/5A)
Wiring configuration	3 Phase 3/4 wire
Voltage range	240V (L-N), 110V (L-L), 63.5 (L-N)
Aux. Power Supply	80-240V
Current range	1-1.2A, 5-6A
Accuracy Class	0.5, 1.0
Main frequency	50 Hz + 5%
Burden	As per standards

APPROVALS

Standards	IS13779, ISI4697
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MECHANICAL

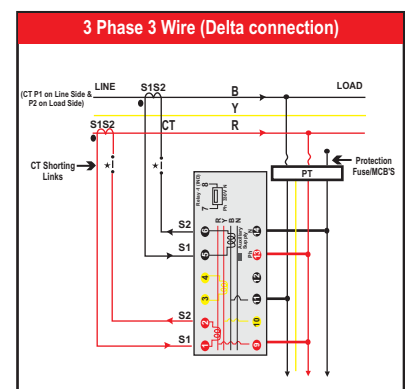
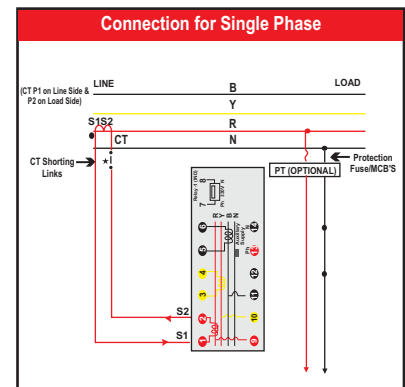
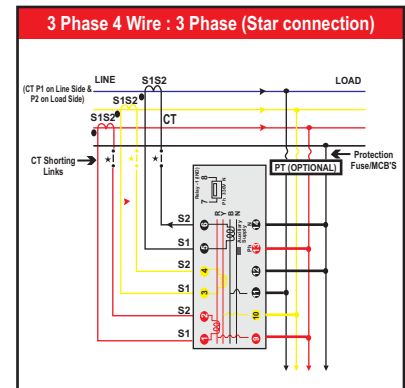
Dimensions (WXHxD)	96x96x65mm
Cut out size	92x92mm
Weight	0.45+0.1kg
Terminals	Comb icon connector
Max conductor size	2.5mm

ENVIRONMENTAL

Ingress protection	IP 50
Insulation class	4kVRMS 50 Hz
Impulse withstand	6kV
Temperature	-100C to 600C (operating) -250C to 700C (storage)
Humidity	95% non-condensing
Flame retardation	UL 94 VO

FEATURES

Favorite page	Configurable through keypad
CT/PT primary	Configurable in field through keypad
Communication	Rs485
Baud rate	1200-19200bps (selectable)
(MODBUS port)	Configurable in field through keypad





RS 485 / RS 232 Converter



RS 485



RS 485



RS 485



RS 485

DESCRIPTION

Data Loggers are intelligent with networking capabilities on RS 485 Bus and MODBUS Protocols. Additionally the meters have an inbuilt memory and RTC to record the stamp of electrical parameters on a specific date & time. Energy Audit Software "Tarang" can be used to download the data from the meters memory to laptop and can be utilized for data analysis and control.

SPECIAL FEATURES

- Compact with integration of external CT/PT Inputs
- Customized recording of parameters through RS 485 Modem
- Choice of recording intervals - High accuracy RTC - User interactive "Tarang" Software

File Edit View Help

ASIAN ELECTRICAL & ELECTRONICS

A-1/8, Sec B1, Tronics City, UPSIDC Ind. Area, Loni Ghaziabad

AN ISO 9001
CERTIFIED COMPANY

Print Date : 18-7-2013

		KW				KVAr				System Parameters			
Date	Time	Kw R	Kw Y	Kw B	Kw C	KVAr.R	KVAr.Y	KVAr.B	KVAr.C	KWH	CTR	PI Sign	PF
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
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OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

Rs. 485 Multi Point Communication (MODBUS)

9 object(s)



ANALOG PANEL METER



The DIN series consists of meters in sizes of (1) 72 x 72 (2) 96 x 96 (3) 144 x 144 mm. The wide view meters are in sizes of 2½, 3½ and 4½ sizes. Meters M065 having round barriers.

These meters are of moving iron or moving coil type and their variants. All these meters have inter changeable dial, Protection cover, different scale pattern and suppressions. These are type tested as per is 1248. The normal class of accuracy is 1.5 (1.0 optional).

MOVING IRON / COIL / CIRCULAR SCALE / DOUBLE SCALE

- Oil damped movement with recessed jewels
- Shock & vibration Proof
- Very High torque to weight ratio
- Shielded movement
- As per is standard
- Range 50mA to 100A (Direct) & CTR / 5A or 1A & 50V - 600V/PTR



As the name implies, a temperature controller - often called a PID controller is an instrument used to control temperature. The temperature controller takes an input from a temperature sensor and has an output that is connected to a control element such as a heater or fan.

To accurately control process temperature without extensive operator involvement, a temperature control system relies upon a controller, which accepts a temperature sensor such as a thermocouple or RTD as input. It compares the actual temperature to the desired control temperature, or set point, and provides an output to a control element.

STANDARD SIZES

Since temperature controllers are generally mounted inside an instrument panel, the panel must be cut to accommodate the temperature controller. In order to provide interchangeability between temperature controllers, most temperature controllers are designed to standard DIN sizes. The most common DIN sizes are shown below.

AM Series - AM 9640	Size : 96x96x110mm
AM Series - AM 7240	Size : 72x72x85mm

APPLICATION

Sensor Input	:	J, K, PT-100, RH and RTD (Optional)
Display	:	Dual 12.5mm, 7 Segment
Power Supply	:	230V AC (50/60 Hz) +- 10%
Setting	:	By Front Key Pad
O/P Control	:	Single / Two / Four Stage. SSR or Relay or 4-20mA _o
Resolution	:	0.1 _o C up to 1600 _o C
Hysteresis	:	Adjustable + 99.9 °C to -9.9 °C
Sensor Error	:	Adjustable + 9.9 °C to -9.9 °C
Display Scaling	:	Auto Scaling after 1000 °C

SILENT FEATURES

- First time in india upto 24 Steps Three phase Three Display.
- R Y B Indication on Relay Dash Board
- with Multi function meter Parameters.
- Robust Technology
- Protection Fuse on Common Point.
- Sensing less then 1% of C.T Ratio
- Power supply 3phase 4 wire.
- Temprature controlled cooler for apfc panel in build.
- One N/O for Alram
- Easy programmable.
- 5 amp or 7 amp contact available.
- Low power consumption less then 2 watt.
- Accuracy class 1 with all meter parameters.
- Compact in size. 144x144x55 mm.
- Front bazzle compliance IP 54.
- Also available for MFD capacitor bank. or discharge time less then 5 sec.
- Fire retardant cabnet.
- Availiable STEPS 4/6/8/12/14/16/18/20/22/24 steps.





FEATURES

- Available in 1-Phase & 3 Phase
- Glossing Board
- ATMs
- Street Light Controlling
- Range 5-30 Amp, 10-60, 240 volt - 40% to 30% 50 Hz + 5%
- Accuracy Class 1.0 with CBIP88/ISI13779
- Optical Communication Port LCD display
- Tamper Proof
- Operating Temp- 10⁰ C to 60⁰ C
- Humidity up to 95% non Condensing
- Burden less then 5VA
- GPRS Connectivity (Optional)

PARAMETERS

Amp, Voltage, Power Factor, Frequency
KWH Run Hour Meter, Single / Three Phase
Weekly / Monthly & Yearly Calender.

ASIAN INDOOR TAPE WOUNDED RING TYPE LOW TENSION CURRENT TRANSFORMERS



RATIO	APPROXIMATE DIMENSION IN MM			RATED BURDEN IN VA	ACCURACY CLASS
	I.D.(A)	O.D.(B)	HEIGHT (C)		
10/5	30	65	45	5	1
20/5	30	65	45	5	1
25/5	30	65	45	5	1
30/5	30	65	45	5	1
40/5	30	65	45	5	5
50/5A	30	65	45	5	5
60/5A	30	65	45	5	5
75/5A	30	65	45	5	5
100/5A	30	65	45	5	1
100/5A	30	65	45	15	1
150/5A	30	65	45	5	1
150/5A	30	65	45	15	1
200/5A	45	85	33	10	1
200/5A	45	85	38	15	1
250/5A	45	85	33	10	1
250/5A	45	85	38	15	1
300/5A	55	105	30	10	1
300/5A	55	105	35	15	1
400/5A	65	110	30	15	1
500/5A	65	110	30	15	1
600/5A	65	110	30	15	1
800/5A	85	120	30	15	1
1000/5A	100	140	30	15	1
1200/5A	100	140	30	15	1
1500/5A	115	140	30	15	1
1600/5A	115	140	30	15	1
2000/5A	120	160	30	15	1
2400/5A	130	150	30	15	1
3000/5A	130	150	30	15	1
3200/5A	130	150	30	15	1
4000/5A	200	180	40	15	1
5000/5A	200	180	40	15	1

NOTE :

1. The Accuracies Listed above are as per I.S.S. 2705 / 1992
2. The General Tolerance for Dimension A, B & C Shall be + be 3mm
3. 1 Amp. Secondary Current Can Also Supplied



TYPE

Block Type (Wound Primary), Bar Type (Embedded)

OPERATING VOLTAGE (MAXIMUM)

3.6 KV, 7.2 KV

PRIMARY CURRENT : 10000 Amps

SECONDARY CURRENT

5 A OR 1 A (Others on request)

SHORT TIME THERMAL CURRENT & ITS DURATION

Up to 40 KA for 1 second (Others on request)

RATED BURDEN

5, 10, 15, 20, 30 VA (Others on request)

ACCURACY CLASS

0.2, 0.5, 1.0, 5P10, 5P15 (others on request). For Differential Protection Bus Bar Protection, CT with accuracy class PS can be offered

FREQUENCY

50Hz

REFERENCE STANDARD

IS-2075 I.E.C. 60044.1

FEATURES:

- Manually Operated Control Transformer (Variable auto-transformer) with zero interlock facility.
- Double range (0-2kV/0-5kV) voltmeter provided to read H.T. Voltage.
- Double range (0-100mA) A.C millimeter provided in the earth and of the H.T winding to read H.T. Current.
- Automatic tripping circuit is provided for isolation of supply, in the event of failure of the object under test.
- Rotary Switch with four different settings of 5, 10, 50 & 100mA is provided on failure of the object under test.
- M.C.B. for short circuit protection
- H.T. On push button. Mains ON & H.T. On LED indication.
- Range selection switch to select 2.5kV or 5kV range with LED indication
- Two spring loaded test prods with 1 meter long cable for safe & easy connection of high voltage to test object.
- Applications - Testing of Insulation of electrical apparatus at high voltage values recommended by applicable relevant.

CURRENT BALANCE CURRENT TRANSFORMER

MODELS

- CBCT 30 {30mm ID}
- CBCT 100 {100mm ID}
- CBCT 150 {150mm ID}
- CBCT 200 {200mm ID}
- Any other Size circular/ Rectangular
- CBCT on request

FEATURES

All Current ratios available to match
Commonly available ELR's
Slim Design
Light weight
Encapsulated CBCT
Terminals are finger proof touch as per IEC class
Highly Cost effective
Compact in Size

SPECIFICATION

System Voltage : 720 V maximum
Insulation voltage : 3kV for 1 minute
System Frequency : 50Hz or 60Hz
Max. Permissible Current : 1kA continues
5KA for 1.5 sec.
Terminal Conductor : 2.5 mm²
Current ratio : 1/1000, 1/600 any other on request
Distance Between Toroid and relay : 50 meters
Operation Temperature:- 20°C to 70°C
Humidity: 95%RH (non condensing)
Enclosure: Flame retardant glass filled ABS
Complaint with : IEC 44-1 and IEC 185
Mounting : Four Fixing Slot



- On and off times individually settable
- Calibrated knob for accurate On time and Off time setting
- Rugged design suitable for 24 hrs
- Wide temperature withstand range
- Accurate timing & repeat cycle accuracy
- Suitable for mounting inside panel

GENERAL DESCRIPTION

Asian Electronic timer finds application in automatic starting and stopping of Diesel priming pumps Genets, fire engines. Also used in continuous on & off cycles of motors, pumps, etc in pumping or any industrial use also used in all industrial timing applications. The internal system is derived from a series of clocks which when triggered start the timing cycle and trip after the present time as follows

On timing	Initially on and after preset time settable on facia timer turns off.
Off timing	After on time is over the off time timer takes over settable by knob on facia

Two sets of changeover contacts changeover at end of every timing cycle i.e. On or off.

Time delay is as per orders which are

0 - 10 sec	0 - 100 sec
0 - 60 sec	0 - 3 min
0 - 10 min	0 - 1hrs.

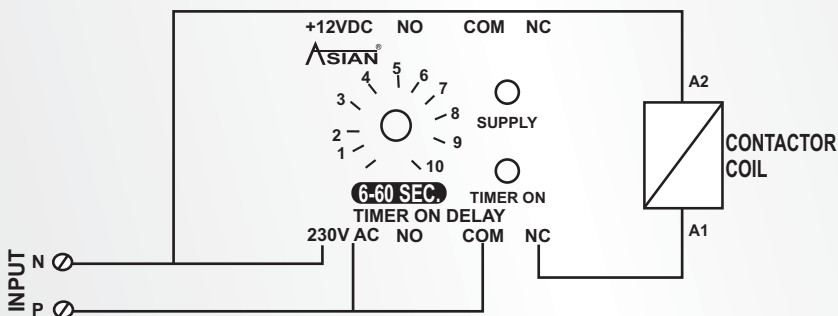
Any of these times can be specified while ordering two models:

- (1) 230V/12V DC timers using either 230 Vac or
- (2) 24 V DC using 24 V DC supply

SPECIFICATIONS

Size	70x45x110mm
Voltage rating	230V AC / 12V DC 24V DC
On/Of Time setting	As per order 0-10, 0-100, 0-60 sec 0-3, 0-10 min, 0-60 min
Off / Time setting	same as on above
Burden	5VA at setting
Temperature range	-20+55°C
Repeat time accuracy	± 2% of setting
Contact rating	5A Max
Thermal rating	5A Max
Surge capacity	Relay will withstand continuously rated voltage.

Connection Diagram



SALIENT FEATURES

- Three Kick attempt timer relay
- Auto lockout after three kicks
- Rugged design suitable for 24 hrs
- Wide temperature withstand range
- Accurate timing & repeat cycle accuracy
- Suitable for mounting inside panel

GENERAL DESCRIPTION

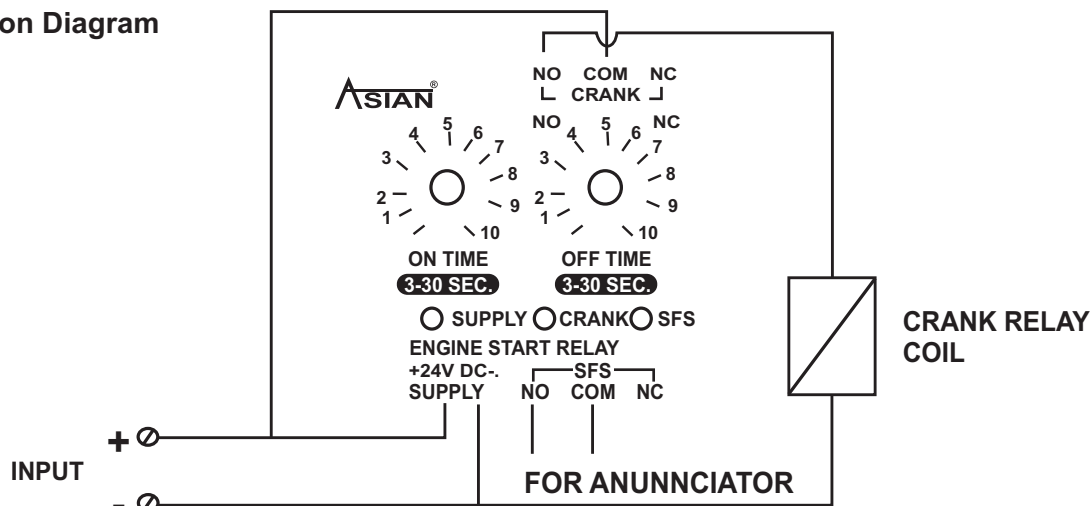
Asian Engine starting relays find application in automatic starting of Diesel/petrol engines or Genets and fire engines. Also used in AMF panels for captive power plants. The internal system is derived from a series of clocks which remain on for durations is stable by two calibrated potentiometers settable from 0-30 seconds. Two sets of changeover contacts are provided. One set is used for cranking or sequencing operation to start the diesel or petrol engine/genet. The other set of contacts is provided for lockout in case the engine/genet does not start in three attempts. After the lockout phase the relay stops functioning. The external supply is required to be cut to reset the relay after lockout.

SPECIFICATIONS

- | | |
|---|-----------------------------------|
| - Voltage rating | 12 or 24 Vdc Specify During Order |
| - On time setting | 0-30 sec |
| - Off time setting | 0-30 sec |
| - Burden | 5VA at setting |
| - Temperature range | -20 + 55°C |
| - Repeat time accuracy | ± % of setting |
| - Contact rating | 5A max |
| - Thermal rating | Relay will withstand |
| Continuously rated voltage. Surge capacity is twice rated voltage | |



Connection Diagram



SALIENT FEATURES

- Validates all three phases simultaneously
- Precise circuits enable high accuracy
- Rugged design suitable for 24 hrs
- Filtering & harmonic suppression to Enable precise comparison of Measurement
- Built in timer for delay applications
- Suitable for mounting inside panel

GENERAL DESCRIPTION

Asian Under + Over voltage relay find application in effective protection of equipments such as genet, motors, pumps, trans, Shunt capacitors etc. from damage due to transient under voltages. These are also used to sense blackouts and brownouts and to control auto start stops of engines and genet's e.g. In AMF panel. The input voltage is continuously checked and the value measured is compared against a preset generates a changeover signal. Two sets of potential free changeover contacts are provided for breaker tripping. The relay resets automatically when the input is within limits. A fixed time delay of 2-4 sec on low and high signal is also given after comparison to suppress false tripping as in case of transients. Under and over voltage are externally suitable on front facia by two potentiometers. A hysteresis of about 5-15.

Volts between dropout and pickup is provided to avoid sharp cutoffs. The relay remains off when is low or zero or high than set limit and when voltage is healthy the relay is on. (This care of no volt operation) LED indicator Display the status.

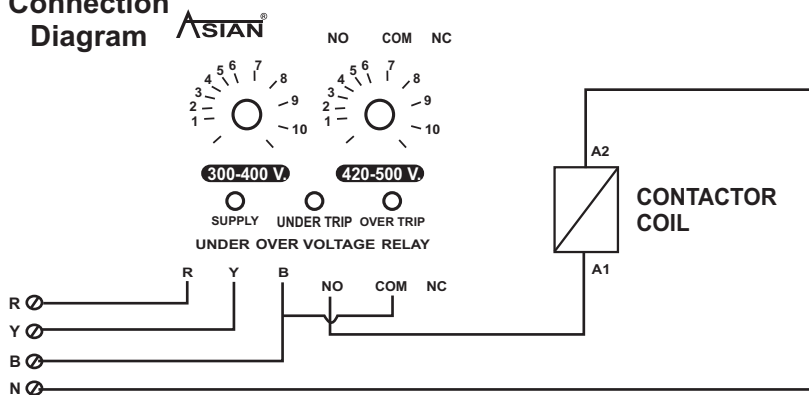
SPECIFICATION

- | | |
|---------------------|--|
| - Voltage rating | 3 ph 415 Vac, 110V ac |
| - Frequency | 50 Hz |
| - Voltage setting | Under 70-90%
Over 100-130%
Under 300-400V
Over 420-500V |
| - Time setting | 2-4 sec fixed |
| - Burden | 5VA at setting |
| - Temperature range | -20+55°C |
| - Repeat accuracy | ± 3% of setting |
| - Contact rating | Relay will withstand |

Continuously rated voltage. Surge capacity is twice rated voltage.



Connection Diagram



SALIENT FEATURES

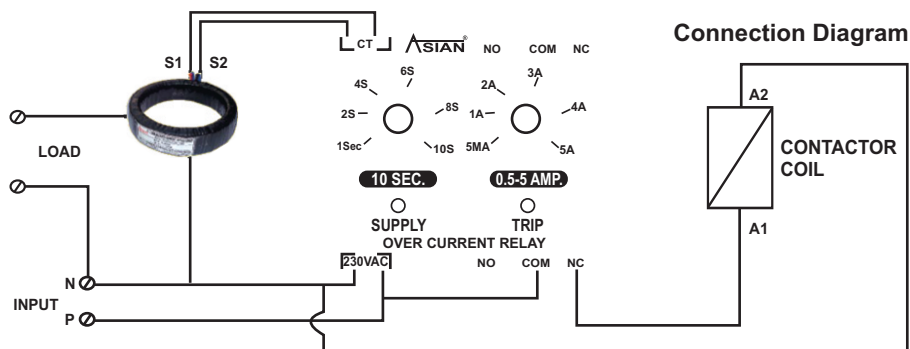
- Validates Current through CT continuously
- Precise circuits enable high accuracy
- Rugged design suitable for 24 hrs
- Filtering & harmonic suppression to enable precise comparison of Measurement
- Built in time for Delay applications
- Suitable for mounting inside panel

GENERAL DESCRIPTION

Asian series of over current relays are ideal for sensing over current faults in anyone phase for protection of AC machines. Transformers, Feeders Generators etc. The relay monitors the current passing in any feeder secondary of the CT in that phase. Over currents in any phase can be easured by appropriately connecting the CT's the resultant current thus ensed in converted through sensitive electronic circuits and digitally compared to the preset reference also suitable through a potentition meter on the facia. A higher than limit condition triggers a timer which can be set from 0-10sec also on the facia. If the Over current condition persists for more than the time duration a contact changeover occurs and a led on facia glows to indicate a trip condition. This can be used to trip the breaker. The time trip helps toward of transcend currents so the time must be set according to the system requirements. Two sets of changeover contacts are available.

SPECIFICATIONS

Voltage (aux) rating	230VAc
Frequency	50Hz
CT secondary current	5A max
Over Current setting	0.5 - 5A
Time Setting	0 - 10sec
Burden Voltage Coil	2 VA at setting
Current coil	3 VA at setting
Temperature range	-20 + 550C
Repeat time accuracy	± 2% of setting
Contact rating	5A max
Thermal rating	Relay will withstand
continuously rated voltage. Surge capacity is twice rated voltage	



SALIENT FEATURES

- Validates Current through CT continuously
- Precise circuits enable high accuracy
- Rugged design suitable for 24 hrs
- Filtering & harmonic suppression to enable precise comparison of Measurement
- Built in time for Delay applications
- Suitable for mounting inside panel

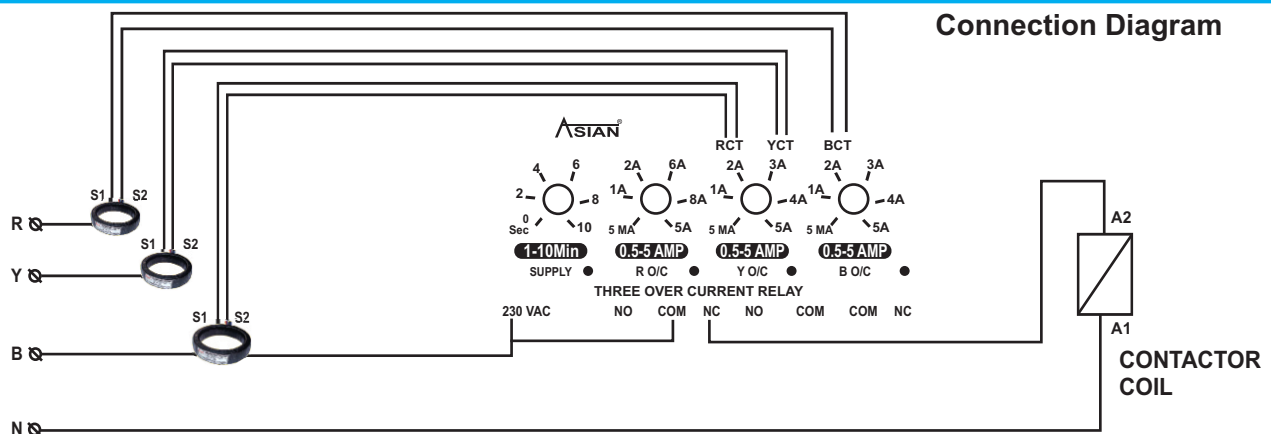
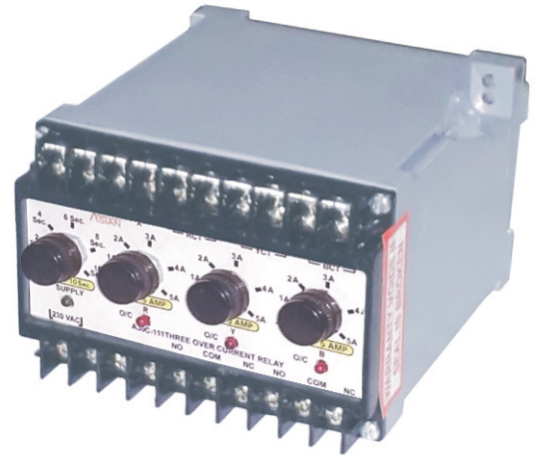
GENERAL DESCRIPTION

Asian series of over current relays are ideal for sensing over current faults in any one phase for protection of AC machines. Transformers, Feeders Generators etc. The relay monitors the current passing in any feeder secondary of the CT in that phase. Over currents in any phase can be measured by appropriately connecting the CT's the resultant current thus sensed in converted through sensitive electronic circuits and digitally compared to the preset reference also suitable through a potentiometer meter on the facia. A higher than limit condition triggers a timer which can be set from 0-10sec also on the facia. If the Over current condition persists for more than the time duration a contact changeover occurs and a led on facia glows to indicate a trip condition. This can be used to trip the breaker. The time trip helps toward of transient currents so the time must be set according to the system requirements. Two sets of changeover contacts are available.

SPECIFICATIONS

Size	100x70x110mm
Voltage (aux) rating	230VAC
Frequency	50Hz
CT secondary current	5A max
Over Current setting	0.5 -5A Per Phase
Time Setting	0-10 Sec
Burden Voltage Coil	2 VA at setting
Current coil	3 VA at setting
Temperature range	- 20 + 55°C
Repeat time accuracy	± 2% of setting
Contact rating	5A max
Thermal rating	Relay will withstand

continuously rated voltage. Surge capacity is twice rated voltage



SALIENT FEATURES

- Validates Frequency through Frequency of Voltage Supplied (Self Powered)
- Precise circuits enable high accuracy
- Rugged design suitable for 24 hrs
- Filtering & harmonic suppression to enable precise comparison of Measurement
- Built in time for Delay applications
- Suitable for mounting inside panel

GENERAL DESCRIPTION

ASTIAN AF-115 series frequency relay are used for sensing frequency supplied in the supply network and tripping incase the frequency goes above the desired limit. These relays are used for protection of sensitive equipments due to under or over frequency when the equipments is being supplied from a source whose frequency may be erratic. The relay monitors the frequency of the supply / signal and digitally compares the measured frequency with the preset able limit governed by a potentiometer on the facia. A lower or higher than limit condition triggers a timer which is internally set between 1-2 sec toward of transients. If the under or over condition persists for more than 1 or 2 sec a contact changeover occurs and an led on facia glows to indicate a trip condition. This can be used to trip the breakers / supply. Two sets of changeover contact are available. The relay auto resets on normal signal / supply AF-115 has three models

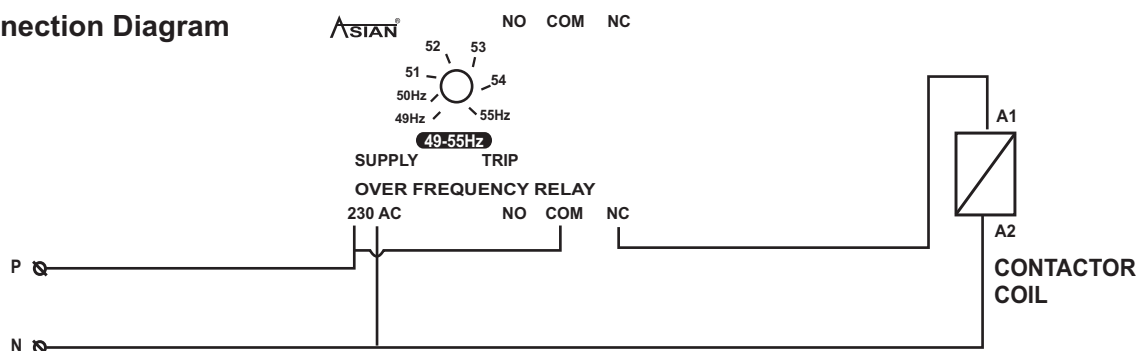
- Type 1 : Over 50-55Hz
 Type 2 : Under 45-50Hz
 Type 3 : Under 45-55Hz

SPECIFICATIONS

Size	100x70x110mm
Voltage (aux) rating	230VAc
Frequency	50Hz
Frequency sensing	
Range	
Frequency setting	Over 50-55 Hz Under 45-50 Hz Under / over 45-55 Hz
Burden Voltage Coil	2VA at setting
Temperature range	-20 + 55C
Contact rating	5A max
Thermal rating	Relay will withstand
continuously rated voltage. Surge capacity	is twice rated voltage



Connection Diagram



SALIENT FEATURES

- Validates Current through CT continuously
- Precise circuits enable high accuracy
- Rugged design suitable for 7x24 hrs
- Filtering & harmonic suppression to Enable precise comparison of Measurement
- Built in time for Delay applications
- Suitable for mounting inside panel

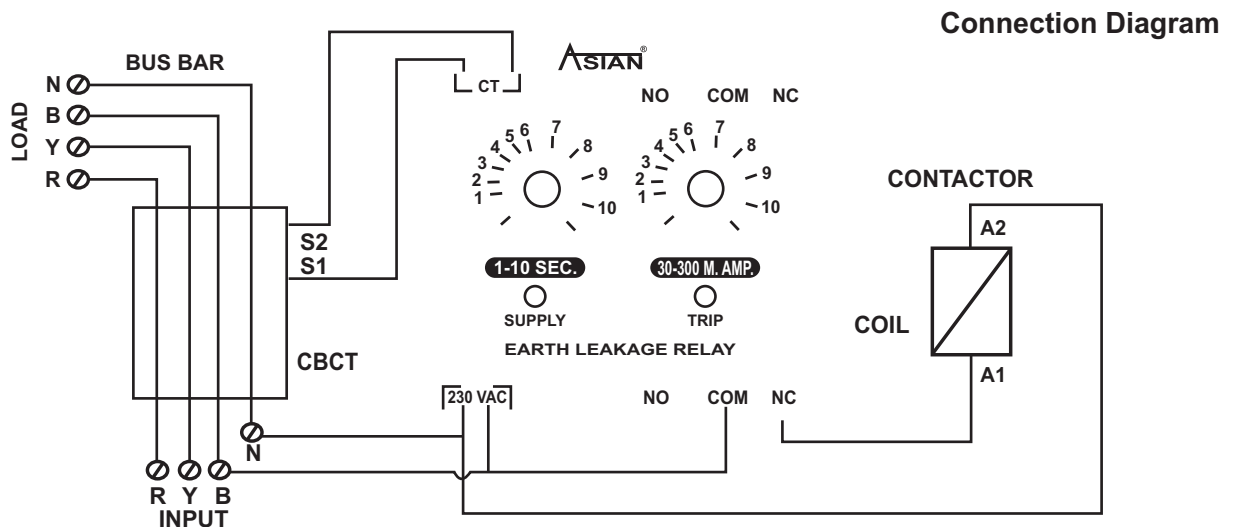
GENERAL DESCRIPTION

Asian series of Earth Leakage relays are ideal for sensing leakage current flowing through the systems for protection of AC machines just as transformers, Feeders, Generators, electric current passing through an entire system. Leakage currents in the system can be measured by appropriately connecting the CT's. The resultant current thus sensed is converted through sensitive electronic circuits and digitally compared to the preset reference also set able through a potentiometer meter on the facia. A higher than limit condition triggers a timer which can be set from 0-10sec also on the facia. If the leakage currents persists for more than the time duration a contact changeover occurs and a led on facia glows to indicate a trip condition. This can be used to trip the breaker. The time trip helps to ward of transient currents so the time must be set according to the system requirements. Two sets of changeover contacts are available.

SPECIFICATIONS

- Voltage (aux) rating	230VAc
- Frequency	50Hz
- CT secondary current	5A max
- Earth Leakage Current	1-10% IE
Setting	50mA-500mA
- Time Setting	0-10 Sec
- Burden Voltage Coil	2 VA at setting
- Current coil	3 VA at setting
- Temperature range	-200+550C
- Repeat time accuracy	± 2% of setting
- Contact rating	5A max
- Thermal rating	Relay will withstand

Continuously rated voltage. Surge capacity is twice rated voltage





Asian Toggler Relay Suitable to Operated Two or Three Devices, Toggles Power Supply, Each Output Electronically Interlocked To Prevent Simultaneous Outputs, Ideal For Fire Fighting Pumps, Water Pumps and Air Conditioners Etc. All Contacts Are 5a Potential Free

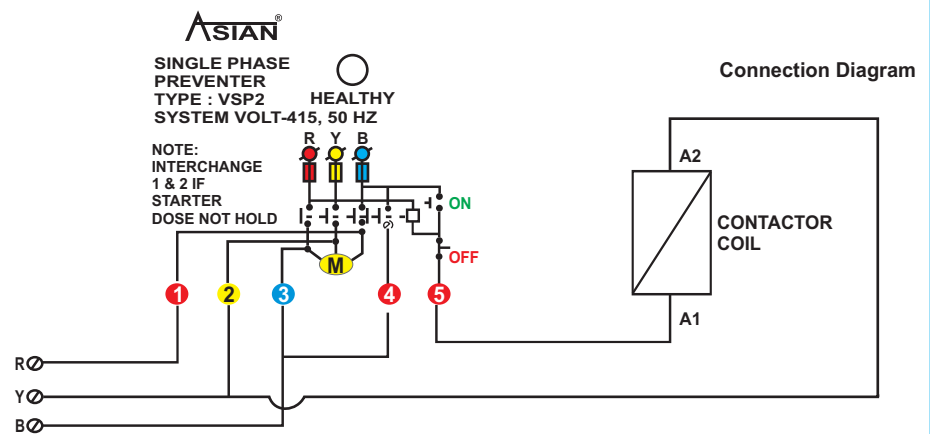
SINGLE PHASE PREVENTER

Description / Specification

Smallest Size of Single Phasing, Reverse Phasing Unbalanced Supply. Auto Reset 1 No Output Contact Suitable For Any Hp/kw Rating.

APPLICATIONS:

- Agriculture pump starters - 3 ph split machines
- Hoist motor control - Valve Actuator motor
- Machine tools - Injection molding machine



CURRENT CUTOUT RELAY



SPECIFICATIONS

Size	96x96mm
Voltage (aux) rating	230VAc
Frequency	50Hz
CT secondary current	5A max / 1A
Over Current setting	0.5 -5A Per Phase
Time Setting	0-10 Sec
Burden Voltage Coil	2 VA at setting
Current coil	3 VA at setting
Temperature range	- 20 + 550C
Repeat time accuracy	± 2% of setting
Contact rating	5A max
Thermal rating	Relay will withstand

continuously rated voltage. Surge capacity is twice rated voltage

SALIENT FEATURES

- Integrated unit having full feature set
- Additional lamp test provision enables diagnostics
- Incorporates digital technology
- Rugged design suitable for 7x24 hrs operation
- Any number of Units can be wired in parallel to increase the number of fault points.

GENERAL DESCRIPTION

These annunciation units AA24 are digital units with front end lit by LED's. Applications are in monitoring fault conditions in any process, equipments etc. A fault condition then triggers a buzzer, trip contact and additional contact for Additional hooter in case an external hooter is desired.

On receipt of a potential free signal, the corresponding window flashes, two changeover contacts changeover to signal trip indication and an internal electronic buzzer beeps to signal fault condition. One additional contact is provided for hooter in case external hooter is desired

When the acknowledge pushbutton on AA24 is pressed the flashing becomes steady, the buzzer stops and the hooter contact is released. After the removal of fault the unit can be reset by the reset pushbutton.

On pressing lamp test all the windows glow simultaneously and the buzzer sound. This is a diagnostics tool.

SPECIFICATIONS

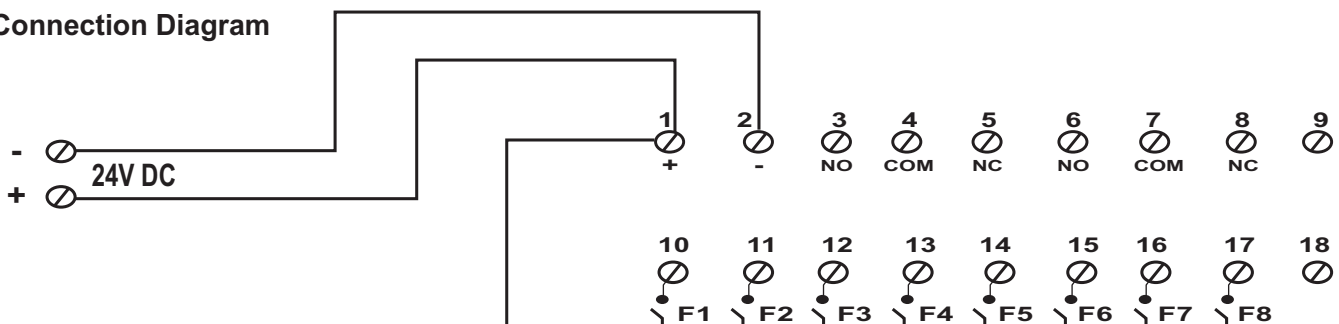
- Voltage rating 12V, 24V DC
- Voltage range +/- 20% of rated voltage
- Frequency 50HZ
- Buzzer rating continuous
- Lamp Rating LED's continuous
- Window flash time 1 sec on, 1 sec off
- Push buttons Test, Ask, Reset on front facia of
- Annunciator
- Temperature range -20 + 55°C
- Trip Contact rating 5A max
- Thermal rating Relay will withstand continuously

APPLICATION

These units can be used for fault annunciation in any environment. Being solid state digital units rating are 7x24 hrs. Operating. These units are also available as standard 4 Fault, 8 Fault, 10 Fault units. (Multi Fault Unit Standard Unit) Refer to separate catalogue for each



Connection Diagram



SALIENT FEATURES

- Validates all three phases simultaneously
- Precise circuits enable high accuracy
- Rugged design suitable for 7x24hrs
- Filtering & harmonic suppression to Enable precise comparison of Measurements
- Built in timer for delay applications
- Suitable for mounting inside panel

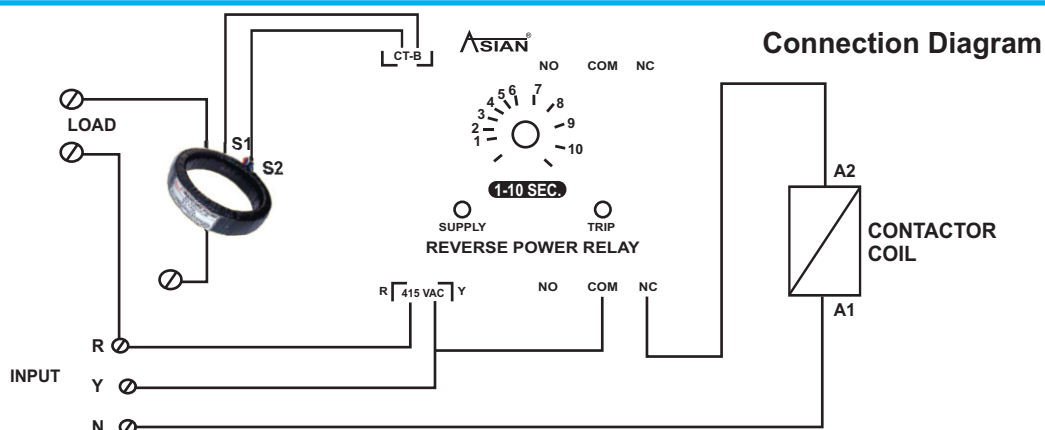
GENERAL DESCRIPTION

ASTIAN series RPR relay monitors the power flowing in the line. The direction of the power is checked. The relay essentially monitors the current supplied by / flowing through the alternator on B phase through the secondary of metering CT. Current is squared with the voltage output of the alternator in RY phase and motoring condition detected if it exists. The Squared output is compared to a preset level and a timer is triggered above limit. Timer can be set 0-10 sec. Contacts changeover occurs on timeout and an led indication signals closure. Relay gets relay automatically if the prime mover is stopped. The reverse power is typically set between 6 - 10% but fixed internally. This setting can be changed on demand but will not be variable. Setting cannot be changed once set.

These relays are ideal for generator, transformer etc. Reverse power protection and to prevent motoring in prime movers.

SPECIFICATIONS

- Voltage rating	3ph 415 Vac
- Frequency	50 Hz
- Current	5A max
- Time setting	0 - 10 sec
- Reverse power	6 - 10% fixed
- Burden	5VA at setting
- Temperature range	- 20 + 55°C
- Repeat time accuracy	± 2% of setting
- Contact rating	5A max
- Thermal rating	Relay will withstand



Water Level indicator are home automatic product which helps a customer to completely eliminate manual intervention that is required every day in every home to fill water. Now no more losing sleep over filling your water tank. Be in night or day or you are away, water level controller ensures your water tank is filled at the right time & not even a single drop is wasted

(FULLY AUTOMATIC WATER LEVEL CONTROLLER)

- Auto Start when Water comes to reserves level.
- Auto off when tank gets Full.
- Automatic off when upper tank full
- Auto on when lower tank Empty
- Auto on when water comes in corporation line
- Auto off when water supply interrupts
- It control all types of single Phase / Submersible Phase / Submersible and all other motors.

FEATURES & BENEFITS

- Motor switches on automatically when less water in tank and water is available at source.

Daily water filling convenience- No worries/ Tensions when to fill water tank.

Motor is switched ON only if water is available at source- No dry run allowed.

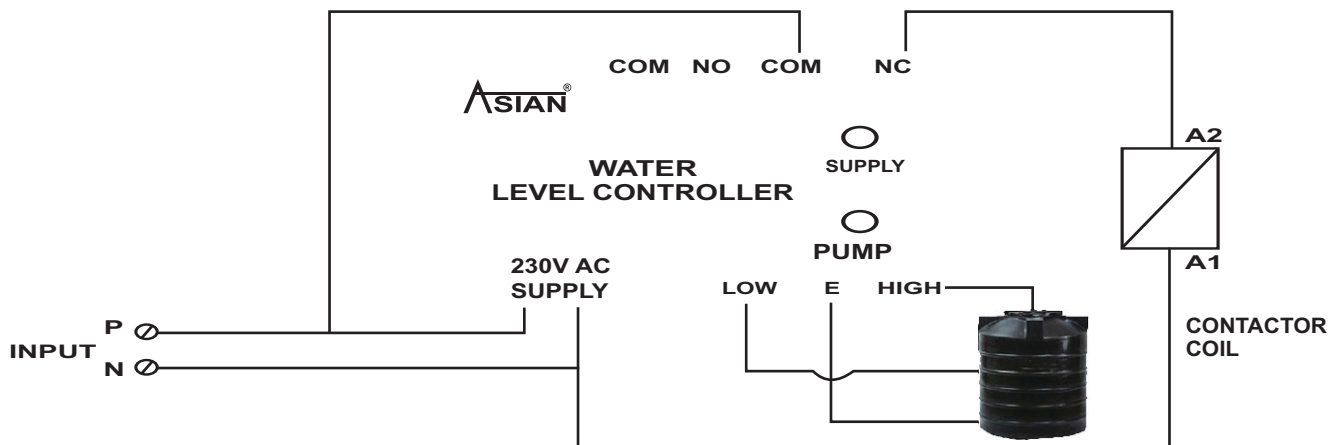
- Motor switches off automatically when tank is full

No worries of water overflow - preserves construction quality as there is no water spread.

- Water Level & control display installed at a convenient location in the house



Connection Diagram





FEATURES:

1. State of Art Microcontroller Based Design
2. 4 Line 3 Digit ultra bright LED display
3. Site selectable CT (Primary & Secondary)
4. True RMS measurement
5. Password Protection
6. Universal Aux. Supply
7. Bargraph Indication of Load current

ALARM/TRIPS:

- Under Voltage • Over Voltage
- Voltage Asymmetry/Unbalance
- Phase Loss • Phase Reversal
- Under Current • Over Current
- Current Phase Loss
- Current Imbalance
- Under Frequency
- Locked Rotor
- Rotor Earth Fault
- No Load Run/Dry Run Indication

PARAMETERS:

- VOLTAGE :
 - o RY (Phase- Phase)
 - o YB (Phase- Phase)
 - o BR (Phase- Phase)
 - o Average (Phase- Phase)
 - o RN (Phase- Neutral)
 - o YN (Phase- Neutral)
 - o BN (Phase- Neutral)
 - o Average (Phase- Neutral)
- AMPERE :
 - R Phase
 - Y Phase
 - B Phase
 - Average
- Frequency
- Run Hour
- System Power Factor
- Kilo-watt

TECHNICAL SPECIFICATION

Input	: 3 phase 4 wire
Volts	: Range 40-500V for 415 V model
Amps	: 0.1 -6.0 Amps
Freq	: Through R phase (Internally)
Burden	: 0.2 VA max. per input for Voltage & Current Signals 3 VA max. on Aux. Supply
Aux.Supply	: 40-270 VAC / DC
Display	: 4 Line x 3 Digit {0.39 Inches 7 Segment LED Display}
Accuracy	: Class 1.0 for Volt /Ammeter For Hz : 0.1 %of full scale
Resolution	: 0.01 for Frequency Meter Amps : 0.1<100A 0.1<1000A 0.1KA>1000A
Relay	: Normally Energized
Computation	: True RMS
Frequency	: 45 Hz – 400 Hz.
Ambient	: 0 – 50°C
Humidity	: < 95 % Non –condensing
Weight	: 350gms
Dimensions	: 96 x 96 x 65 mm (L x W x D)
Panel Cutout	: (90+1_0)mm X (90+1_0)mm
Mounting	: Flush Mounting with side clamps.



Our range of Asian Electrical & Electronics Buzzer is offered to meet the specific requirements of the control panel and control desk manufacturers, we have emerged with diverse range of Electronic Buzzer, which is primarily manufactured for normally all types of devices.

We offer Electronic Buzzer type 96x96 MTMV & 72x72 MTMV, which is specially designed for audio annunciation purpose. Further much care and attention is taken for selecting the output pitch in the maximum sensitive zone of human auditory system. Also, pitch is continuously adjusted over a vast range to give effects of pleasing sound, comfort and convenience to the clients. Moreover, our devices are completely reliable and enduring for a longer period as they are completely electronic. In addition, our devices are greatly preferred over other conventional Electro Magnetic Buzzer & Bell. Also, our devices can be availed in three different tones such as single tone, two tone and three tone.

SALIENT BENEFITS

- High Durability - Electronic Circuit - Exquisite appearance
- Low Power Consumption - Easy Flush mounting for panels
- Protected against polarity reversal - Generates no radio frequency voice
- Suitable for operation on AC or DC



S.No.	Cat No.	DIMENSION (MM)			
HT INSULATORS		TOP DIA	BOTT DIA	HEIGHT	INSERT SIZE
1	HT 3.3 (DMC)	61	61	75	M12x18,M10x18, M6x10
2	HT 3.3 (Epoxy)	61	61	75	M12x18,M10x18, M6x10(MS)
3	HT 6.6 (DMC)	61	61	90	M12x18,M10x18, M6x10
4	HT6.66190S(DMC)	61	61	90	M12x18
5	HT6.64575D (DMC)	45	45	75	M16X21
6	HT6.66190 (Epoxy)	61	61	90	M12X18,M10X18,M6X10(MS)
7	HT11/61130 (DMC)	61	61	130	M16x36,M10x18, M6x12
8	HT11/61130 (Epoxy)	61	61	130	M16x36,M10x18, M6x12(MS)
9	HT11/75130 (Epoxy)	75	75	130	M20x40,M16X36,M10X16(MS)
10	HT22/70210 (Epoxy)	70	70	210	M16x45,M10x25,M6x15(MS)
11	HT33/80300 (Epoxy)	80	80	300	M16x75,M10x25,M6x15(MS)
12	HT33/100300 (Epoxy)	100	100	300	M24x55,M16x50,M10x16(MS)
13	HT33/120320 (Epoxy)	100	120	320	M20x75,M16x50,M10x16(MS)
14	NEW HT 6.6 KV	85	88	60	M16x18,M16x18,M10x18(MS)

NOTE ON SMC & DMC SUPPORTS & INSULATORS

All Switch gear & Electrical panels are combination of current carrying conductors & non current carrying structure. To separate & support the current carrying busbars from the structure, busbar supports & Insulators are used. These supports / insulators should be designed to bear electrical & mechanical stress during the normal & fault conditions. They should also comply others features like Nonhygroscopic, Fire Retardant, chemical & Corrosion Resistance.

Asian busbar supports & insulators are made of SMC (Sheet Moulded Compound) / DMC (Dough Moulded Compound) manufactured with a combination of resin and other additives under controlled temperature and pressure, to produce components with excellent alround properties and characteristics.

Although both SMC & DMC have the following properties, SMC is better in all respects

➤ High die electric & mechanical strength ➤ High temperature withstand capacity ➤ High strength to weight ratio

In insulators the inserts are made of EN1A which has better tensils strength as compared to MS & Brass (e.g. ENIA-600 Mpa, MS-300 Mpa, Brass-150 Mpa) & has least chances of thread failure as compared to others



Hexagonal Insulators

Height (H) mm	Insert	Products code	Dimension			Normal Voltage AC/DC
			AF mm	R mm	Hb mm	
30	M6	MH 630	33	25	10	600/750
40	M8	MH 840	35	30	15	1000/1200
50	M10	MH 1050	46	37	20	1200/1500
50	M12	MH 1250	46	37	20	1200/1500
70	M10	MH 1070	55	41	20	2000/2400
70	M12	MH 1270	55	41	20	2000/2400

Finger-Supports

Busbar	Product Code	Dimension					
		A	B	C	D	E	F
6mm x 1 run	M106 S	7.2	50	22	14	10	-
10mm x 1 run	M110 S	11.5	50	22	14	10	-
12mm x 1 run	M112 S	13.7	50	22	14	10	-
6mm x 1 run	M106 W	7.2	60	32	14	10	-
10mm x 1 run	M110 W	11.5	60	32	14	10	-
12mm x 1 run	M112 W	13.7	60	32	14	10	-
6mm x 1 run	M106 K	7.2	70	42	20	16	-
10mm x 1 run	M110 K	11.5	70	42	20	16	-
12mm x 1 run	M112 K	13.7	70	42	20	16	-

Conical Insulators

Height (H) mm	Insert	Products code	Dimension			Normal Voltage AC/DC
			Rt mm	Rb mm	Hb mm	
25	M6	MC 625	19	25	10	400/500
30	M6	MC 630	25	30	10	600/750
30	M8	MC 830	25	30	10	600/750
40	M8	MC 840	33	40	15	1000/1200
40	M10	MC 1040	33	40	15	1000/1200
50	M10	MC 1050	40	50	20	1200/1500
50	M12	MC 1250	40	50	20	1200/1500
60	M10	MC 1060	42	60	20	1500/1800
60	M12	MC 1260	42	60	20	1500/1800
70	M10	MC 1070	41	60	20	2000/2400
70	M12	MC 1270	41	60	20	2000/2400

Busbar	Product Code	Dimension					
		A	B	C	D	E	F
6mm x 2 run	M206 W	7.2	60	32	14	10	5.8
10mm x 2 run	M210 W	11.5	60	32	14	10	9
12mm x 2 run	M212 W	13.7	60	32	14	10	11.9
6mm x 2 run	M206 K	7.2	70	42	20	16	5.8
10mm x 2 run	M210 K	11.5	70	42	20	16	9
12mm x 2 run	M212 K	13.7	70	42	20	16	11.9

L- Type Support

Height (H) mm	Products code	LIST PRICE (Rs.)	
		DMC	SMC
60	L 60	22.00	29.00
85	L 85	27.00	34.00
100	L 105	29.00	38.00
125	L 125	34.00	41.00

Busbar	Product Code	Dimension					
		A	B	C	D	E	F
6mm x 3 run	M306 W	7.2	60	40	14	10	5.8
10mm x 3 run	M310 W	11.5	80	50	14	10	9
12mm x 3 run	M312 W	13.7	90	60	15	11	11.9
6mm x 3 run	M306 K	7.2	70	42	20	16	5.8
10mm x 3 run	M310 K	11.5	100	42	20	16	9
12mm x 3 run	M312 K	13.7	100	42	20	16	11.9

Single Pole Supports System DMC/SMC (Colour : RYBB, Brown) SP-Series

S. No.	Cat No.	Top Width (W)	Dimension Length (L)	Height (H)
1	SPN1	15	23	14
2	SPN2	15	28	19
3	NT 60	25	60	25
4	SP30	25	55	30
5	SP35	39	87	35
6	SPS42	42	82	46
7	SP55	50	110	55
8	SP65	52	110	65



EARTH STRIP INSULATOR

Designed to hold Earthing Strips without drilling holes & Alignment Issues

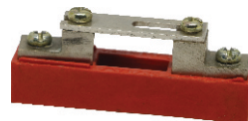
S. No.	Cat No.	Top Width (W)	Dimension Length (L)	Height (H)
1	BC 325	74	25	37.5 (11+26.5)
2	BC 540	105	30	48 (12.5+35.5)



NEUTRAL LINKS

(Mounted on DMC Insulating Pad with connecting strip)

1	NL32
2	NL63
3	NL100

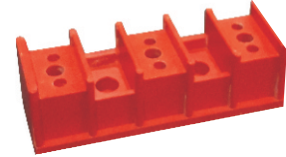


THREE PHASE CONNECTORS DMC

S.No.	Cat No.	DESCRIPTION
1	TP1	TP Connector 1/4"x30mm Bolts(fitted) and RYB caps
2	TPN1	TPN Connector 1/4"x30mm Bolts(fitted) and RYBB caps
3	TPN18	TP Connector M8x35mm Bolts(fitted) and RYBB caps
4	TSB26	DP Connector M6x25 Bolts(Moulded) & Cover
5	TSB36	TP Connector M6x25 Bolts(Moulded) & Cover
6	TSB46	TPN Connector M6x25 Bolts(Moulded) & Cover
7	TSB28	DP Connector M8x30 Bolts(Moulded) & Cover
8	TSB38	TP Connector M8x30 Bolts(Moulded) & Cover
9	TSB48	TPN Connector M8x30 Bolts(Moulded) & Cover



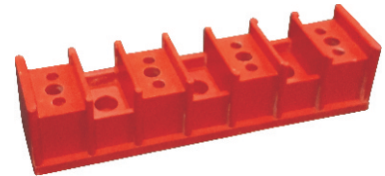
TPN-50 (M10)



DMC 160

SMC-170

TPN-120 (M10)



DMC 110

SMC-130

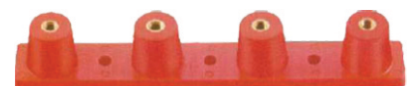
TRIPLE POLE NEUTRAL SUPPORT FOR SINGLE BUSBAR



TRIPLE POLE NEUTRAL SUPPORT FOR DOUBLE BUSBAR



COMBI CONICAL SERIES



Code No.	DIMENSIONS (mm)					
	A	B	C	D	E	F
S 4C-525 (M5)	25	120	20	35	34	35
S 4C-630 (M6)	30	185	25	52	52	52
S 4C-845 (M8)	45	260	35	70	70	70

Asian Submersible Pumps Starter designed with advance technology to meet the stringent requirements of both agriculture as well as domestic applications. It is the safest and completely fool proof solution for long life and trouble free operations of the pump. Specially designed for reliable & long life applications at economic prices



OPERATING PRINCIPLE

A single phase submersible starter consists of electronic circuit. START/STOP push buttons, housed in a sheet enclosure.

SALIENT FEATURES

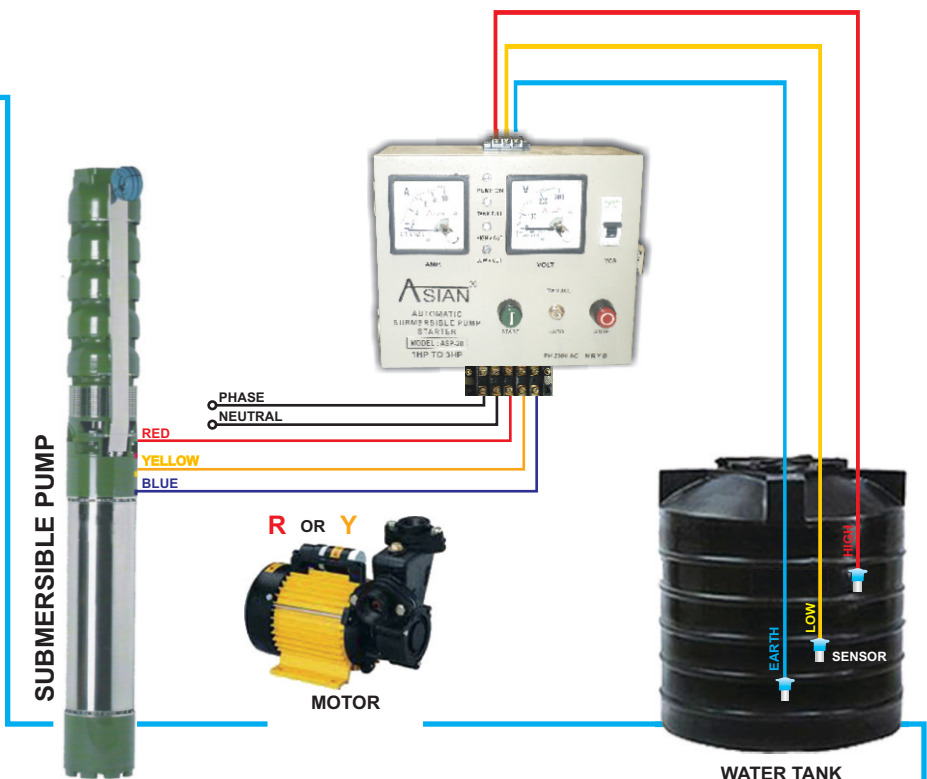
- Under Voltage protection
- Over Voltage protection
- Easy to install
- Run capacitor for improving power factor and lowering consumption
- Powder coated Enclosure
- Volt and Ampere metering

BENEFITS

- Accidental starting prevention
- Increase in motor life
- Easy in handling

APPLICATIONS

- Up to 3 HP submersible pumps
- Agriculture submersible and Monoblock Pumps sets
- ECO friendly
- Oil filled/water filled Pumps



TECHNICAL DETAILS

Rating	0.5- 3 Max. 230V, 10
Coil Voltage	230V
Indicating Lamp	230V
Rated Insulation Voltage	690V
Service Temperature	-50 C to +550 C
Degree of Protection	IP 54
Reference Standard	IEC 292

Model	Type	Size	Packing	
AL 1	Panel Lock Pin	20mm	50 Pcs	Per Pc.
AL 2	Pechkas	25mm	50 Pcs	Per Pc.
AL 3	Triangle	20mm	50 Pcs	Per Pc.
AL 4	Square	25mm	50 Pcs	Per Pc.
AK 5	White Zinc Key Pin	----	50 Pcs	Per Pc.
AL 6	White Zinc Key Pechkas	----	50 Pcs	Per Pc.
AK 7	White Zinc Key Triangle	----	50 Pcs	Per Pc.
AK 8	White Zinc Key Square	----	50 Pcs	Per Pc.
AK 9	White Zinc Key Pin(Small)	----	50 Pcs	Per Pc.
AL 10	Pin Lock Long Body	20mm	25 Pcs	Per Pc.
AL 11	Pin Lock Push	----	50 Pcs	Per Pc.
AL 12	Pin Lock Push	----	50 Pcs	Per Pc.
AL 13	Knob Lock (Zinc)	20,25mm	50 Pcs	Per Pc.
AL 14	PVC Knob Lock (Zinc)	20,25mm	50 Pcs	Per Pc.
AL 15	PVC Knob Lock	20,25mm	50 Pcs	Per Pc.
AL 16	Cam Lock Shutter	----	50 Pcs	Per Pc.
AL 17	Cam Lock Heavy	----	50 Pcs	Per Pc.
AL 18	Cam Lock Light	----	50 Pcs	Per Pc.
AL 19	Cam Lock Round	----	50 Pcs	Per Pc.
AL 20	Mini Lock	----	50 Pcs	Per Pc.
AL 21	Capsule Lock	----	50 Pcs	Per Pc.
AL 22	Desk Board Lock with Mukhpan	----	50 Pcs	Per Pc.
AL 23	Desk Board Lock W/o Mukhpan	----	50 Pcs	Per Pc.
AL 24	Pechkas Mini Lock	----	50 Pcs	Per Pc.
AH 25	Bullet Hinge (M.S.)	20x100mm	20Pcs	Per Pc.
AH 26	Bullet Hinge (M.S.)	15x75mm	50 Pcs	Per Pc.
AH 27	Bullet Hinge (M.S.)	12x50mm	100 Pcs	Per Pc.
AH 28	Bullet Hinge (M.S.)	10x50mm	100 Pcs	Per Pc.
AH 29	Bullet Hinge (M.S.)	10x40mm	100 Pcs	Per Pc.
AH 30	U-Hinge	25mm	50 Pcs	Per Pc.
AH 31	U-Hinge	20mm	50 Pcs	Per Pc.
AH 32	Rithal Hinge	50mm	50 Pcs	Per Pc.
AH 33	Rithal Hinge	40mm	50 Pcs	Per Pc.
AH 34	Capsule Hinge	9mm	50 Pcs	Per Pc.
AH 35	Rod Hinge	----	50 Pcs	Per Pc.
AH 36	Hinge with Pin	40mm	50 Pcs	Per Pc.
AH 37	Hinge w/o Pin	40mm	50 Pcs	Per Pc.
AH 38	Panel Lock with Key	----	50 Pcs	Per Pc.
ADH 39	D.Handle S.S.	6" (150mm)	50 Pcs	Per Pc.
ADH 40	D.Handle S.S.	4" (100mm)	50 Pcs	Per Pc.
ADH 41	D.Handle S.S.	3" (75mm)	50 Pcs	Per Pc.
AK 42	PVC Knob	2"(50mm)	100 Pcs	Per Pc.
AK 43	PVC Knob	1 1/2"(37mm)	100 Pcs	Per Pc.
AK 44	PVC Knob	1 1/4"(31mm)	100 Pcs	Per Pc.
AK 45	PVC Knob	1"(25mm)	100 Pcs	Per Pc.
AK 46	Aluminium Sticker Open/Close	----	100 Pcs	Per Pc.
AK 47	PVC Sticker Open/Close	----	100 Pcs	Per Pc.
AL 48	3.5 Lock	----	50 Pcs	Per Pc.
AH 49	Panel Huk	12mm	----	Per Pc.
AH 50	Panel Huk	16mm	----	Per Pc.



OUR KEY STRENGTH

- * Own Compounding of SMC /DMC
- * Automatic Hydraulic Press
- * Computer aided Designing with integrated tool room facilities to produce critical dimension
- * All Products are type tested in our end
- * We can make as per customer specifications
- * Meeting the deadlines.All efforts are made to ensure that shipment of goods within time

TOLERANCE CHART		<p>ALL DATA GIVEN IN THIS CATALOGUE HAS BEEN DETERMINED CAREFULLY AT THE COMPANY'S TEST LAB WITH VARIETY OF PURPOSE FOR WHICH THE PRODUCTS ARE USED AND THE METHODS AND APPLICATION TECHNIQUES EMPLOYED HOWEVER THE DATA AND INFORMATIONS.</p> <p>ARE GIVEN ONLY AS A GUIDE AND ARE NOT BINDING NO GUARANTEE OF THERE AUTHENTICITY CAN THEREFORE BE ASSUMED IN ALL SITUATIONS</p> <p>ARE THE COMPANY RESERVES THE RIGHT TO MODIFY FEATURES WITHOUT PRIOR NOTICE IN VIEW OF CONTINUED IMPROVEMENTS.</p>
DIMENSION (MM)	TOLERANCE(+)	
1-15	0.20 MM	
16-50	0.40 MM	
51-100	0.75 MM	
101-150	1.0 MM	

TECHNICAL SPECIFICATIONS

PROPERTIES	UNITS	TEST METHODS (ASTM)	VALUES	
			SMC	DMC
PHYSICAL				
SPECIFIC GRAVITY		IS-1998	1.7	1.9
GLASS CONTENTS	%	N.A.	25	15
WATER ABSORPTION (24yrs)	%	D-570	0.2	0.15
MECHANICAL				
TENSILE STRENGTH	Kgf/cm	D-638	700	400
FLEXURAL STRENGTH	Kgf/cm	D-790	1550	900
COMPRESSIVE STRENGTH	kgf/cm	D-695	1800	1500
IMPACT STRENGTHZOD	J/m	D-265	600	250
ELECTRICAL				
DIELECTRIC STRENGTH	KV/mm	D-149	12	10
TRACKING STRENGTH	Volts	BS-5901	+600	+600
ARC RESISTANCE	Secs	D-495	+180	+180
FLAMMABLITY		UL-94	Self Extinguishing	

DEALER NAME & ADDRESS

ASIAN®



.....our product range.....

BASIC PANEL METER • DIGITAL POWER ANALYZER / TVM METER • DEMAND CONTROLLER • SINGLE SOURCE / DUAL SOURCE ENERGY METER
 DATA LOGGER & ENERGY AUDITING METER • DIGITAL MULTIFUNCTION METER • DIGITAL KWH/KVH/ENERGY METER • DIGITAL AMMETER
 DIGITAL VOLTMETER • DIGITAL POWER FACTOR METER • ANALOG PANEL METER • CURRENT TRANSFORMER • CURRENT LIMITING DEVICES
 DG CONTROLLER & SAFETY UNIT • ENGINE START (CRANK) RELAY • SPEED RELAY • STREET LIGHT CONTROLLER • EURO IP & EURO 3P
 VOLTAGE MONITOR RELAY • UNDER + OVER VOLTAGE MONITOR RELAY • OVER CURRENT RELAY • EARTH FAULT RELAY • REVERSE POWER RELAY
 FREQUENCY RELAY • TOGGLE RELAY • PHASE SEQUENCE CORRECTION RELAY • CYCLIC TIMER • STAR-DELTA TIMER • SINGLE PHASE PREVENTOR
 HANDLES LOCKS & LATCHES • HINGES • WATER LEVEL (PUMP) CONTROLLER RELAY • ALARM ANNUNCIATOR • CBCT
 BATTERY CHARGER ELECTRONIC HOOTER • AUTOMATIC CHANGEOVER SWITCH WITH CURRENT LIMITING DEVICE • BUSBAR INSULATOR

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 AN ISO 9001 : 2015 CERTIFIED CO.

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