











"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 Auxiliary supply	90-270VAC	Mechanical Size Panel cutout	96x96mm 92x92mm
Burden on aux supply	<3VA	Enclosure	Poly carbonate
Burden on measuring terminals	0.5 VA	Terminals	Tag screw
Burden on medodring terminals	0.0 771	Weight	<300gms
Measuring Ranges		Environmental	ooogine
AC Volt Meter	0-63.5V	Temperature	-10°C to +50°C (Operating)
(Single Phase/Three Phase)	0-110V	romporataro	-25°C to +70°C (Storage)
(Girigio i riaso, rrii ce i riase)	0-240V	Humidity	95% non- condensing
	0-415V	Temperature	0.01% per C Tropical
AC Ammeter		Coefficient	0.0170 por O mopicar
(Single Phase/Three Phase)	1A/5A	Display	
Frequency Meter	40-70Hz	Digit Range	9999
Power Factor Meter		Digit i taligo	
(Single Phase three Phase)	0-415V		
(3 Ph Active/Reactive)	1A/5A	Display Resolution	0.001 auto decimal
(, , , , , , , , , , , , , , , , , , ,		., .,	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
,		3 ** * 3 *	ŭ
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	
	0-2A, 0-5V, 0-20A (with Shu		
	0-9999A (External Shunt) 0	-/5mv	



DIGITAL AVF METER

SPECIFICATION GUIDE

Models	Sin	Single Phase Three Phase D			Three Phase				С	
	V	Α	F	PF	V	Α	KWh	kW	Α	٧
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



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 Automization
- Smart Building Control Panels
- Energy Managing and Monitoring Equipments
- Testing Laboratories
- Diesel Generator Control Panels







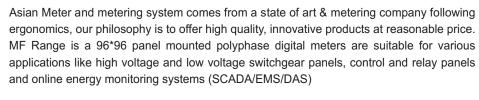






DIGITAL MULTIFUNCTION METERS

Am2081 Am4081 Am5011 Am4011





- 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
- Favourite page can be selected
- Reverse polarity indication
- Support of MODBUS RTU on RS 485 / RS 232





Use on LV and HV s	evetom				
Accuracy of the met					<u> </u>
Accuracy of the men	1.171.0				
Instantaneous & rm	s values				
Current,	Total, per phase & Neutral			/	
Voltage,	Average, Phase to Neutral & Phase		-	-	
Frequency,	to Phase				
Active power (W)	Total & per Phase	•		~	
Reactive power (Va				~	<u> </u>
Apparent power (VA				~	<u> </u>
Power factor	Total & per phase		~	~	~
	• •				
RPM,	Between V & I, Ph1, Ph2, Ph3				$\overline{}$
	For generator only, speed calculated on				
	generator voltage output and number of				
	machine poles				
Energy values					
Active (Wh)				/	
Reactive (VARh)				/	<u> </u>
Apparent energy (V	ah)			/	/
Export/Import					
Power quality meas	urement				
Total harmonic disto	ortion % current, voltage, per phase				/
Other measurement					
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 Defa	ault		Not Availa	able	



TECHNICAL FEATURES

- "	
Family	Am5011
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/ly/lb
4	Frequency in Hz
5	Pfr/ Pfy/Pfb/Pf
6	KWr/KWy/KWb/KW
7	KVAr/r/KVAry/KVArb/KVAr
8	KVAr/KVAy/KVAb/KVA
Annunciators	Customized on LCD
Customization of	Single Line Customized FND is
parameters	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



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-scalling 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

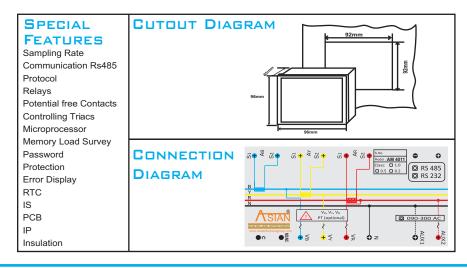
HOUR METER AM-2100

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











SINGLE SOURCE / DUAL SOURCE ENERGY METER











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 LT/HT

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 1-1.2A, 5-6A Current range **Accuracy Class** 0.5, 1.0 Main frequency 50 Hz + 5%

Burden As per standards



IS13779, ISI4697 Standards

MECHANICAL

Dimensions (WXHXD) 96x96x65mm Cut out size 92x92mm Weight 0.45 + 0.1 kg

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

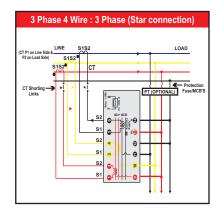
through keypad

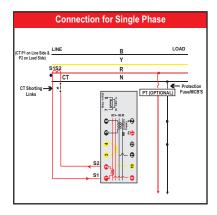
Communication Rs485

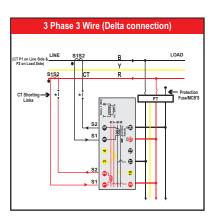
Baud rate 1200-19200bps (selectable)

Configurable in field (MODBUS port)

through keypad



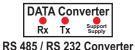




DATA LOGGER & ENERGY AUDITING SOFTWARE









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			Syste	em Parame	ters
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	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	OFF	OFF	OFF	OFF						

Rs. 485 Multi Point Communication (MODBUS)

9 object(s)

ASIAN

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 $2\frac{1}{2}$, $3\frac{1}{2}$ and $4\frac{1}{2}$ 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

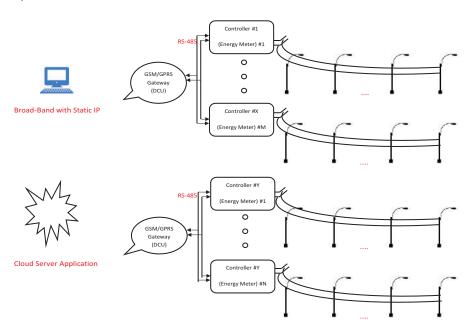
- Oil damped movement with recessed jewels
- Shock & vibration Proof
- Very High torque to weight ratio
- Shielded movement
- As per is standard
- Range 50mA to 100A (Direct) & CTR / 5A or 1A & 50V 600V/PTR

STREET LIGHT CONTROLLING & MONITORING APPLICATION

SPECIFICATIONS:

Network Elements:

- 1) Lighting Management Server Software
- 2) GSM/GPRS Gateway
- 3) Controller (Energy Meter)
- 4) Wired Communication (RS-485) among Meters and GSM/GPRS MODEM
- 5) Broad-Band Internet Connection with Static IP or else Cloud Server Account







WORKING PRINCIPLE:

Lighting Management Server Software (LMSS) will monitor the entire network of Street Lights. As depicted in the above diagram, group of Street Lights will be connected to a Controller (Energy Measuring and Controlling Meter). Group of Controllers will be connected to GSM / GPRS Gateways (DCUs) through RS- 485 wired bus. All these GSM / GPRS Gateways will be communicated to a Remote Server where the LMSS isinstalled either in local pc (Must have Internet with Static IP) or Cloud Server. All the Street Lights will be controlled and monitored through a Controller. All the details of Energy of grouped Street lights will be available with Controllers, Controllers will pass this information to Servers through Network Elements like Gateways etc. All Street Lights Configurations can be done in LMSS Terminal. Street Light ON and OFF timings can be programmed in LMSS. The following are the Technical Specifications.

Technical Specifications of Controller

Technical Specifications Gateway:

S.No	Parameter	Details	Remarks
1	AC-DC Power Adaptor	5V, 2A	
2	GSM/GPRS	2G and 3G	
3	Display	LCD with Backlit	
4	Keypad	4x3 Keypad	
5	LEDs	Status Indication (N/W etc)	
6	Meters Side COM Port	RS-485	
7	Server Side COM Port	GSM/GPRS	

S.No	Parameter	Details	Remarks
1	Supply Voltage	240Vac (-40% to +30%)	
2	Current Basic	10A	
3	Current Maximum	60A	
4	Current Rating	10A-60A	
5	Class of Accuracy	Class 1.0	
6	Starting Current	0.2% of Basic Current @UPF	
7	Rated Frequency	50Hz +/- 5%	
8	Power Factor Range	0 to 1 (Lagging & Leading)	
9	Power Loss	As per IS-13779	
10	Resistance to Surge Voltage	As per IS-13779	
11	Temperature	As per IS-13779	
12	Power Consumption	As per IS-13779	
13	Load Control	Through Latching Relay	
14	Clock Accuracy	+/- 5% at 25 C	
15	Load ON/OFF Control	Through Serial Port	
16	Enclosure Material	Engineering Plastic	
17	Degree of Protection	IP51	
18	Weight	600 grams (approx)	
19	Display	LCD with Backlit	
20	COM Port to Gateway	RS-485 (Wired)	

Lighting Management Server Software: Storage on local PC with Internet Connection with Static IP or Cloud Server Space





ASIAN INDOOR TAPE WOUNDED RING TYPE LOW TENSION CURRENT TRANSFORMERS



	APPROXIM	IATE DIMEN	ISION IN MM	RATED BURDEN	ACCURACY CLASS
RATIO	I.D.(A)	O.D.(B)	HEIGHT (C)	IN VA	CLASS
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	95	30	10	1
300/5A	55	95	35	15	1
400/5A	65	100	30	15	1
500/5A	65	100	30	15	1
600/5A	65	100	30	15	1
800/5A	105	135	30	15	1
1000/5A	105	135	30	15	1
1200/5A	105	135	30	15	1
1500/5A	105	135	30	15	1
1600/5A	118	158	30	15	1
2000/5A	118	158	30	15	1
2400/5A	130	155	30	15	1
3000/5A	150	175	30	15	1
3200/5A	150	175	30	15	1
4000/5A	180	205	40	15	1
5000/5A	200	225	40	15	1

NOTE:

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

CURRENT TRANSFORMER















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, 50, 20 (others on request). For Differential Protection Bus Bar Protection.

CT with accuracy class PS can be offered

FREQUENCY

50Hz

THE TEST RESULTS INDICATE THAT THE SAMPLE TESTED COMPLIES WITH THE REQU

CI. 7.3.5 of IS: 16227 (Part-2), 2016 / IEC: 61869-2, 2012

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/

CBCT on request

Rectangular

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)

Complaint with: IEC 44-1 and IEC 185

Enclosure: Flame retardant glass filled ABS

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 same as on above 5VA at setting

Burden 5VA 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

Off / Time setting











- 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 cracking 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

- On time setting

- Off time setting

- Burden

- Temperature range

- Repeat time accuracy

- Contact rating

- Thermal rating

12 or 24 Vdc Specify

During Order 0-30 sec 0-30 sec 5VA at setting -20 + 55°C

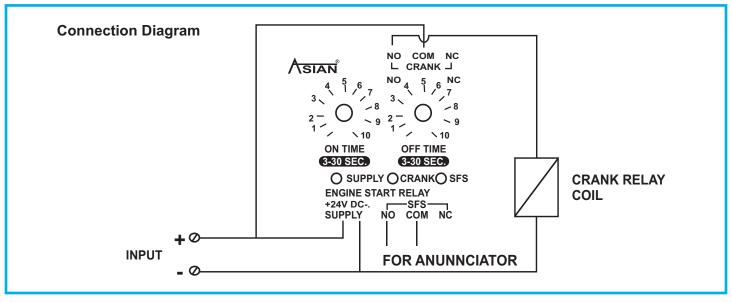
± @% of setting 5A max

Relay will withstand

Continuously rated voltage. Surge capacity is twice rated voltage









- 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 genets 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.



- Voltage rating 3 ph 415 Vac, 110V ac

- Frequency 50 Hz

- Voltage setting Under 70-90%

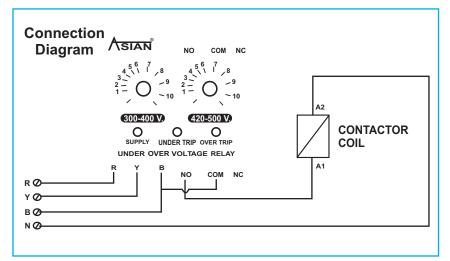
Over 100-130% Under 300-400V Over 420-500V 2-4 sec fixed

- Time setting 2-4 sec fixed 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.











- 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 ensured 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.



Voltage (aux) rating 230VAc Frequency 50Hz CT secondary current 5A max Over Current setting 0.5 - 5ATime Setting 0 - 10sec Burden Voltage Coil 2 VA at setting 3 VA at setting Current coil Temperature range -20 + 550C Repeat time accuracy ± 2% of setting

Contact rating 5A max

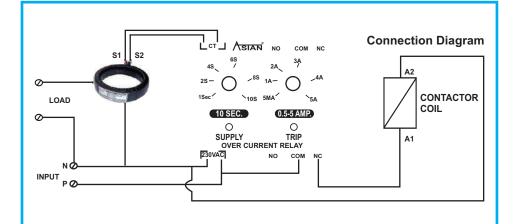
Thermal rating Relay will withstand

continuously rated voltage. Surge capacity

is twice rated voltage











- 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 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 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

O-10 Sec

Burden Voltage Coil

Current coil

Temperature range

Repeat time accuracy

O-10 Sec

2 VA at setting

3 VA at setting

- 20 + 550C

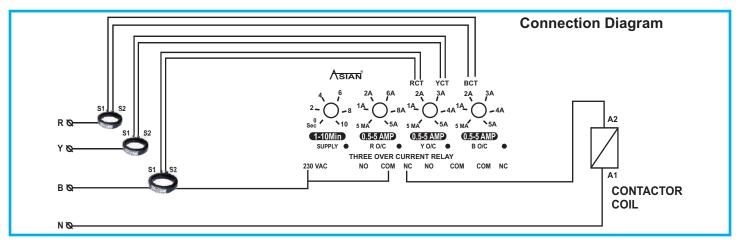
± 2% of setting

Contact rating 5A max

Thermal rating Relay will withstand

continuously rated voltage. Surge capacity is twice rated voltage

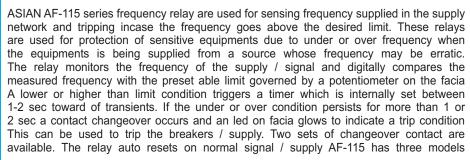






- Validates Frequency through Frequency of Voltage Supplied (Self Powered)
- Precise circuits enable high accuracy
- Rugged design suitable for 24 hrs
- Filtering & harmonic suppression to enable precise comparison of Measurement
- Built in time for Delay applications
- Suitable for mounting inside panel

GENERAL DESCRIPTION



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



Size 100x70x110mm

Voltage (aux) rating 230VAc Frequency 50Hz

Frequency sensing

Range

Frequency setting Over 50-55 Hz

Under 45-50 Hz

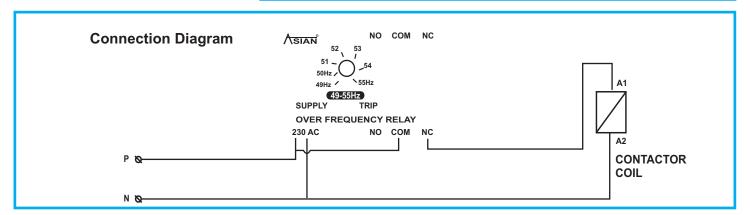
Under / over 45-55 Hz

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







- 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 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 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.



Voltage (aux) ratingFrequency

- CT secondary current
- Earth Leakage Current
Setting

- Time Setting

Burden Voltage CoilCurrent coil

- Temperature range

- Repeat time accuracy

- Contact rating

- Thermal rating

230VAc

50Hz 5A max 1-10% IE 50mA-500mA

0-10 Sec 2 VA at setting 3 VA at setting

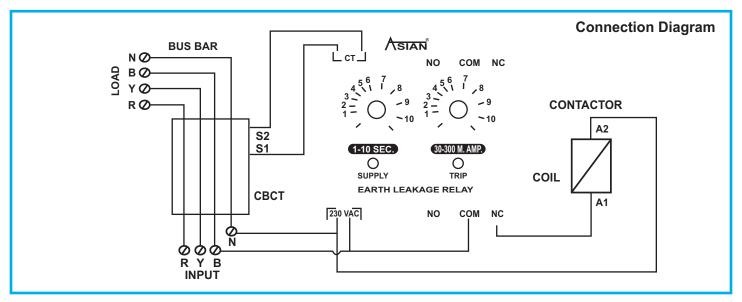
-200+550C ± 2% of setting

5A max

Relay will withstand

Continuously rated voltage. Surge capacity is twice rated voltage













Asian Toggler Relay Suitable for Operating 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

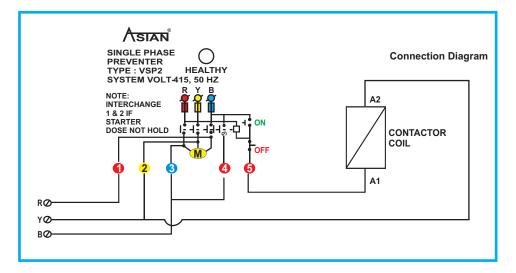
SINGLE PHASE PREVENTER

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 0.5 -5A Per Phase Over Current setting Time Setting 0-10 Sec Burden Voltage Coil 2 VA at setting Current coil 3 VA at setting - 20 + 550C Temperature range Repeat time accuracy ± 2% of setting Contact rating 5A max

continuously rated voltage. Surge capacity is twice rated voltage

Relay will withstand

Thermal rating



- 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- Trip Contact rating-20 + 55'C5A max

- Thermal rating Relay will withstand continuously

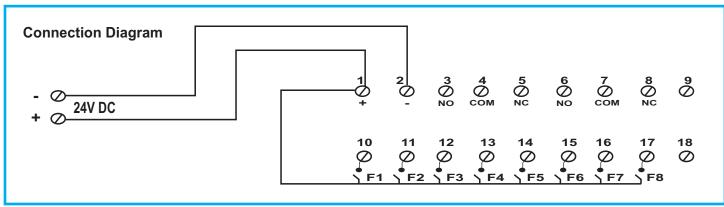
APPLICATION

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











- 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

ASIAN 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

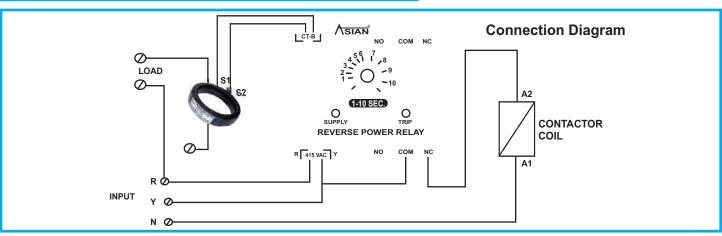
- Temperature range - 20 + 55°C
- Repeat time accuracy ± 2% of setting

- 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)

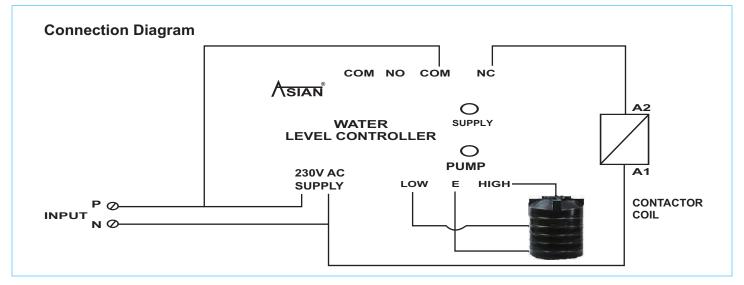
- Auto Start when Water comes to reserves level.
- Auto off when tank gets Full.
- Automatic off when upper tank full
- Auto on when lower tank Empty
- Auto on when water comes in corporation line
- Auto off when water supply interrupts
- It control all types of single Phase / Submersible Phase / Submersible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











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

FEATURES:

- State of Art Microcontroller Based Design
- 4 Line 3 Digit ultra bright LED display
- Site selectable CT (Primary & Secondary)
- True RMS measurement
- Password Protection
- Universal Aux. Supply
- Bargraph Indiaction 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

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.



AE-301

DIGITAL AUTOMATIC SUBMERSIBLE PUMP STARTER WITH WATER LEVEL CONTROLLER

- Most advanced submersible pump starter
- * Digital display for convenient monitoring
- * Dry run and overload protection
- * Automatic water level control with float switch
- Single push start/stop buttons
- * Built in electricity consumption meter
- Over and under voltage protection
- * For single phase pumps up to 3 HP



AE-302

DIGITAL AUTOMATIC SUBMERSIBLE PUMP STARTER WITH WATER LEVEL CONTROLLER WIRELESS

- * Hi-tech submersible pump starter with microprocessor
- Digital display for convenient monitoring
- Dry run and overload protection
- * Wireless Automatic water level control with float switch
- Single push start/stop buttons
- * Built in electricity consumption meter
- Over and under voltage protection
- * For single phase pumps up to 3 HP







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 annuciation 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

\SIAN®

HT INSULATOR EPOXY & DMC



S.No.	Cat No.		DIMENSION (MN	/ I)	
HT INSUL	ATORS	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,M12x18, M6x12
8	HT11/61130 (Epoxy)	61	61	130	M16x36,M12x18, 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		Products	Di	mensi	on	Normal
(H)	Insert	code	AF	R	Hb	Voltage
mm			mm	mm	mm	AC/DC
30	М6	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

Conical Insulators

Height	Insert	Products		Dimen	sion	Normal
(H)		code	Rt	Rb	Hb	Voltage
mm			mm	mm	mm	AC/DC
25	М6	MC 625	19	25	10	400/500
30	М6	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

L- Type Support

Height (H) mm	Products code	LIST PRICE (Rs	
, , , , , , , , , , , , , , , , , , ,	DN		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







Finger-Supports

		_					
D l	Product	Dimension					
Busbar	Code	Α	В	С	D	Ε	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	-

D l	Product	Dimension					
Busbar	Code	Α	В	С	D	Ε	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

December	Product		Dimension					
Busbar	Code	Α	В	С	D	Е	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





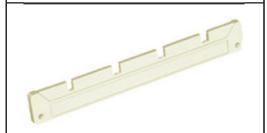




TP-50



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)					
	Α	В	С	D	Е	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







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				
DIMENSION (MM)	TOLERANCE(+)			
1-15	0.20 MM			
16-50	0.40 MM			
51-100	0.75 MM			
101-150	1.0 MM			

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.

ARE GIVEN ONLY AS A GUIDE AND ARE NOT BINDING NO GUARANTEE OF THERE AUTHENTICITY CAN THEREFORE BE ASSUMED IN ALL SITUATIONS

ARE THE COMPANY RESERVES THE RIGHT TO MODIFY FEATURES WITHOUT PRIOR NOTICE IN VIEW OF CONTINUED IMPROVEMENTS.

TECHNICAL SPECIFICATIONS

PROPERTIES	UNITS	TEST METHODS	VAL	UES
FROFERITES	(ASTM)		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

Notes	ASIAN
	(B)