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VERITEK

Product Selection Guide

- ▶ Multifunction Meters
- ▶ Digital Panel Meters
- ▶ Current Transformers
- ▶ Protection Relays
- ▶ Transducer
- ▶ Timers
- ▶ Energy Audit Supervisor

Company overview...

Factory at Navi Mumbai is one of the mile stone in Veritek's Success story.

Veritek has grown extraordinarily well for the last 20 years through its innovative products & customer support.



Products are manufactured on one of the latest Panasonic SMT machines. In-circuit testers ensures that the manufacturing processes are error free.



Inhouse enclosure molding with own moulds ensures best quality finishing and aesthetic of our products.



Product Assembly line for Customised Products.



VERITEK is into manufacturing of Electrical Panel Meters, Current Transformers, Protection Relays, Timers, Transducers for more than two Decades (Estd. 1995).

Team of Qualified Engineers backed with integrated R & D, Production Facility & Stringent Quality Standards to give you high Quality and Superior Products.

A man is only as big as his character and a company is only as big as its **Quality**. Everything else - Financial success, Market prominence - is an accompaniment. Success in the market without success in Quality is a short lived phenomenon.

The company that knows this overcomes its limitations of size & turns into a unique entity with its size always smaller than its Quality.

Our **Motto** is timely supply of reliable & accurate goods with innovative features for Customer Satisfaction.

Our Products are well accepted in the international markets

Here
Reliability
&
Accuracy
Meets

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For Dimension refer diagram A & G on page no. 19

Dimension : 96x96 | Panel Cutout : 92x92

Description	MULTIFUNCTION METER			
Model	VIPS80P (96x96)	VIPS80L (96x96)	VIPS80EL (96x96)	VIPS60 (96x96)
Display	7 segment LED display, 0.39"	Liquid crystal display with backlight		7 segment LED display, 0.56"
Digits	4 rows of 4 digits	4 rows of 4 digits (For parameter) 1 row of 8 digits (For energy) Bargraph for % load current	2 rows of 8 digits (For parameter) 4 rows of 8 digits (For energy)	3 rows of 4 digits
Input Volts	0-500VAC (L-L), 3Ø-4 Wire / 1Ø-2 Wire			
Input Ampere	0.015A-6.00 Ampere AC / Direct 60 Ampere optional			
Resolution & Accuracy	Energy 0.1 kWh, PF 0.001, Hz 0.01 & Auto ranging for Voltage, Current & Power ; Class 0.5, Class 1 For Energy			
CT Primary	Programmable for up to 10000A			
CT Secondary	1A / 5A Programmable			
PT Ratio	Programmable up to 132 kV, (4 Digits - Except VIPS 80P)			
Communication	RS485 Modbus (Optional)			
Auxiliary Supply	90 - 270VAC / DC			
Burden	3VA Max. for Auxiliary supply, 0.2VA for Voltage & Current input			
Update Time	1 Sec			
Scroll	Auto / Manual			
Parameter	V _{LL} (Individual / Average) V _{LN} (Individual / Average), Current (Individual / Average) Phasor angle, Frequency, Power factor (Individual / Average), Phase angle, Active / Reactive / Apparent power (Individual / Total), Maximum demand (kW / kVA), Peak maximum demand (kW / kVA), Active energy, Reactive inductive energy Reactive capacitive energy, Apparent energy (Import & Export) Run hour (Import / Export & Total), THD V (Phase wise), THD I (Phase wise) Upto 31st Harmonics (through RS485)			V _{LL} (Phase wise), V _{LN} (Phase wise) Ampere (Phase wise), Hz PF (Phase wise), Active / Reactive / Apparent power (Phase wise), Active energy, Run hours, THD V (Phase wise) THD I (Phase wise)
Relay Output	1 C/O relay for Maximum Demand			
Temperature / Humidity	Operating: -10°C to 55°C, Storage: -20°C to 75°C < 95% RH			



VIPS83P

VIF METER



For Dimension refer diagram A on page no. 19

Dimension / Panel Cutout : 96x96 / 92x 92

Description	1Ø VIF METER	3Ø VIF METER
Model	VIPS83P1 (96x96)	VIPS83P (96x96)
Display	7 segment LED display, 0.56"	
Digits	3 rows of 3 digits	
Input Volts	0-300VAC (L-N), 1Ø-2 Wire	0-500VAC (L-L), 3Ø-4 Wire / 1Ø-2 Wire
Input Ampere	0.015 - 6.00 Ampere AC / 60 Ampere direct optional	
Resolution & Accuracy	Hz 0.1 & Auto ranging for Voltage, Current & Power ; Class 0.5	
CT Primary	Programmable for up to 5000A	
CT Secondary	1 / 5A Programmable	
PT Ratio	---	Upto 132kV
Auxiliary Supply	90 - 270VAC / DC	
Burden	3VA Max. for Auxiliary supply, 0.2VA for Voltage & Current input	
Update Time	1 Sec	
Scroll	Auto / Manual	
Parameter	VL-N, Ampere, Hz, PF, Active power, Apparent power Run Hour, RPM	VL-L phase wise, VL-N phase wise, Ampere phase wise, Hz, PF phase wise, Active power phase wise, Apparent power phase wise, Run Hour, RPM
Temperature / Humidity	Operating: -10°C to 55°C, Storage: -20°C to 75°C < 95% RH	

VIPS84 / VIPS84P / VIPS84D DUAL SOURCE

ENERGY METER



For Dimension refer diagram A on page no. 19

Dimension : 96x96 | Panel Cutout : 92x92

Description	ENERGY METER				
Model	VIPS84 (96x96) VIPS84 DIN (DIN RAIL)	VIPS84P (96x96)	VIPS84L (96x96)	VIPS84D DUAL SOURCE (96x96)	VIPS84C (96x96)
Display	7 segment LED display, 0.39"			LCD Display	7 segment LED display, 0.39"
Mounting	Flush / DIN			Flush	
Digits	1 row of 8 digits (For energy), 1 row of 10 digits (For energy) - (for VIPS84L only), 1 rows of 4 digits (For parameter display)			4 rows of 4 digits	1 row of 6 digits
Input Volts	0-500VAC (L-L), 3Ø-4 Wire / 1Ø-2 Wire				
Input Ampere	0.015A-6.00 Ampere AC / 60 Ampere direct optional				
Resolution & Accuracy	Energy 0.1 kWh, PF 0.001, Hz 0.01 & Auto ranging for Voltage, Current & Power; Class 0.5, Class 1 For Energy				0.1 kWh
CT Primary	Programmable for up to 10000A				Programmable up to 5000A
CT Secondary	1A / 5A Programmable				5A
PT Ratio	Up to 132 kV				---
Communication	---			*RS485 MODBUS	---
Auxiliary Supply	90 - 270VAC / DC				
Burden	3VA Max. for Auxiliary supply, 0.2VA for Voltage & Current input				
Update Time / Scroll	1 Sec / Auto / Manual				
Parameter	Active energy, VL-L Phase wise, VL-N Phase wise, Ampere, Hz, PF Phase wise Active, Reactive & Apparent, Power Phase wise, Load hours. THDV Phase wise, THDI Phase wise		VL-L, VL-N Phase wise & Avg. Ampere phase wise & Avg. Hz, PF Phase wise & system, Active, Reactive & Apparent Power phase wise & Total, Active energy, Reactive inductive energy, Reactive capacitive energy Apparent energy (Mains / DG), Run hours (Mains, DG & Total)		kWh
Temperature / Humidity	Operating: -10°C to 55°C, Storage: -20°C to 75°C < 95% RH				

Also Available
VIPS 84C
Pulse output optional

VIPS91E / VIPS92E / VIPS999

SINGLE PHASE METER



For Dimension refer diagram A & B on page no. 19

Dimension : 96x96 | Panel Cutout : 92x92

Description	1Ø VOLTMETER	1Ø AMPERE METER	1Ø POWER METER
Model	VIPS91E (96x96), VIPS91PE (96x48)	VIPS92E (96x96), VIPS92PE (96x48)	VIPS999 (96x96), VIPS999P (96x48)
Display	7 segment LED display, 0.56"		
Digits	4 digit 1 row		
Input Volts	0-500VAC (L-L), 0-300VAC (L-N)	---	0-300VAC (L-N)
Input Ampere / Voltage	0-500VAC	0.015 - 6.00A / Direct 60 ampere optional	
Resolution & Accuracy	Auto ranging, Hz 0.01 ; Class 0.5	Auto ranging ; Class 0.5	Energy 0.1 kWh, PF 0.001, Hz 0.01 Auto ranging for volts / ampere & power ; Class 0.5, Class 1 For Energy
CT Primary	---	Programmable up to 5000A	
CT Secondary	---	1A / 5A Programmable	
PT Ratio	Up to 132 kV	---	Up to 132 kV
Communication	RS485 Modbus (On special request) for bulk quantity		
Burden	3VA Max. for Auxiliary supply, 0.2VA for Voltage & Current input		
Update Time	1 Sec		
Scroll	Auto / Manual		
Parameter	Fixed: Volts Auto Scroll: Volts, Hz, THD V	Fixed: Amps Auto Scroll: Amps, Hz, THD I	Volts, Amps, Hz, PF, Active Power, Reactive Power, Apparent Power, Energy, THDV, THDI, Load hours
Temperature / Humidity	Operating: -10°C to 55°C, Storage: -20°C to 75°C < 95% RH		
Auxiliary Supply	90-270 V AC/DC		



For Dimension refer diagram A on page no. 19

Dimension : 96x96 | Panel Cutout : 92x92

Description	3Ø VOLTMETER	3Ø AMPERE METER	3Ø POWER METER
Model	VIPS88 (96x96)	VIPS89 (96x96)	VIPS883 (96x96)
Display	7 segment LED display, 0.56"		
Digits	4 digit 1 rows		
Input Volts	0-500VAC (L-L)	---	0-500VAC (L-L)
Input Ampere	0.015 - 6.00A / Direct 60 ampere optional		
Resolution & Accuracy	Auto ranging, Hz 0.01 ; Class 0.5	Auto ranging ; Class 0.5	Energy 0.1 kWh, PF 0.001, Hz 0.01 Auto ranging for volts / ampere & Power; Class 0.5, Class 1 For Energy
CT Primary	---	Programmable up to 10000A	
CT Secondary	---	1A / 5A Programmable	
PT Ratio	Up to 132 kV	---	Up to 132 kV
Communication	RS485 Modbus (On special request) for bulk quantity		
Burden	3VA Max. for Auxiliary supply, 0.2VA for Voltage & Current input		
Update Time	1 Sec.		
Scroll	Auto / Manual		
Parameter	V L-L, VL-N Phase wise & Avg. Hz, THDV Phase wise & Avg.	Ampere phase wise & Avg. THDI Phase wise & Avg.	VL-L, VL-N Phase wise & Avg. Ampere Phase wise & Avg. Hz, PF Phase wise & system, Active, Reactive, Apparent Power phase wise & Total, Energy THDV, THDI, Load Hours.
Temperature / Humidity	Operating: -10°C to 55°C, Storage: -20°C to 75°C < 95% RH		
Auxiliary Supply	90 - 270VAC / DC		



For Dimension refer diagram A & C on page no. 19

Description	Specification	Model of 96 Sq.	Model of 72 Sq.	Accuracy	
AC Ammeter	From 10A, 15A, 20A, 30A TO 3000A, 5000A	With external CT 1A or 5A	VIPS - 69AAC	VIPS - 27AAC	Class 1.5
	From 0.1A, 0.5A, 1A, 5A, 10A, 25A TO 80A, 100A	AC direct connection			
DC Ammeter	From 50uA, 100uA, 1mA, 5mA 1A, 5A, 10A, 25A, 30A TO 100A	DC direct connection	VIPS - 69ADC	VIPS - 27ADC	Class 1.5
	From 10A, 15A, 20A, 30A, 2500A, 3000A TO 8KA, 10KA	with external shunt 50mV, 60mV OR 75mV			
AC Voltmeter	From 30V, 50V, 100V TO 300V, 500V, 600V	AC direct connection	VIPS - 69VAC	VIPS - 27VAC	Class 1.5
	From 1KV, 2KV, 5KV TO 380KV, 450KV	with external voltage transformer			
DC Voltmeter	From 10V, 20V, 30V TO 500V, 600V, 1000V	DC direct connection	VIPS - 69VDC	VIPS - 27VDC	Class 1.5
	From 1KV, 2KV, 5KV TO 8KV, 9KV, 10KV	With external resistor			
Frequency Meter	Voltage: 110V, 220V, 380V, 440V	VIPS - 69HZ	VIPS - 27HZ	Class 1.0
	Frequency: 45-55Hz, 45-65Hz, 55-65Hz, 47-53Hz				
Power Factor Meter (cos Ø)	Voltage: 110V, 220V, 380V, 440V CURRENT: 1A OR 5A	For 1Ø OR 3Ø	VIPS - 69PF	VIPS - 27PF	Class 2.5
	Scale: 0.5cap-1-0.5ind, 0.3cap-1-0.1ind, 0.7cap-1-0.2ind				
Power Meter (kW OR kVAr)	Voltage: 110V, 220V, 380V, 440V Current: 1A OR 5A	For 1P1W, 3P3W, 3P4W	VIPS - 69KW	VIPS - 27KW	Class 1.5
		With CT or voltage transformer	VIPS - 69KVar	VIPS - 27KVar	
Maximum Demands Ammeter	15MIN 5A, OR 15MIN 1A	Changeable scale	VIPS - 69AMD	VIPS - 27AMD	Class 3.0

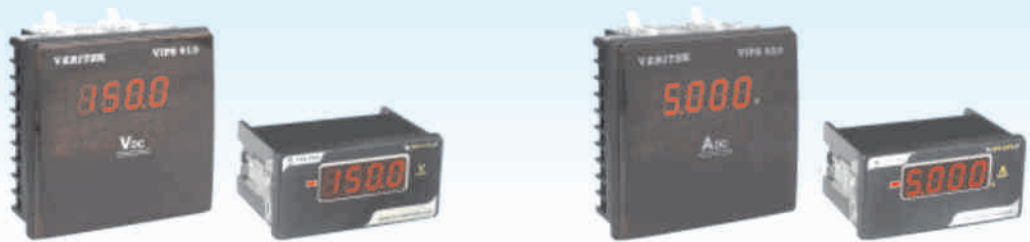


Dimension : 122 x 122 x 86 (L x W x D mm)
 Panel Cutout : 118 x 118 x 82 (L x W x D mm)

Description	PF / KVAR CONTROLLER
Model	VIPS-108
Display	7 segment LED display, 0.56"
Digits	1 row of 4 digits
Input Volts	0-500VAC (L-L), 3Ø-4 Wire
Input Ampere	0.05 - 6.00 Ampere AC
Resolution	PF 0.001
CT Primary	Programmable for up to 5000A
CT Secondary	5A
No. of Steps	4 / 6 / 8 / 12 & 16
Auxiliary Supply	415VAC (+15% -25%)
Burden	3VA Max. for Auxiliary supply, 0.2VA for Voltage & Current input
Update Time	1 Sec
Mode of Operation	Auto / Manual
Temperature / Humidity	Operating: -10° C to 55° C, Storage: -20° C to + 75° C, < 95% RH

VIPS 91P-DC / VIPS 92P

DC VOLTMETER / AMMETER



For Dimension refer diagram B on page no. 19

Description	DC VOLTMETER	DC AMMETER
Model	VIPS 91D (96x96), VIPS 91PD (96x48)	VIPS 92D (96x96), VIPS 92PD (96x48)
Display	7 segment LED display	
Digits	4 digits 1 row	
Auxiliary Supply	90-270 VAC/DC	
Input	±0-1 V, 0-5V, 0-10 V, 0-200V, 0-300V, 0-1000V	±0-75mV (Shunt ratio programmable), also available direct 2A, 5A, 20A (in built shunt)
Accuracy	Class 0.5	
Resolution	Programmable / Auto Ranging	
Update Time	1 sec	
Temperature	-10 to 55 deg C	
Humidity	< 95% RH	



For Dimension refer diagram A, D & E on page no. 19

Description	DIN RAIL MOUNT EARTH LEAKAGE RELAY			
Model	VIPS-98PF (96x96)	VIPS-98P	VIPS-98I	VIPS-98
Display	7 segment LED display (% of set point)	Bargraph (% of set point)	---	
Auxiliary Supply	90 - 270VAC/DC		240VAC, (+15% -25%)	90 - 270VAC/DC
Burden On Supply	<3 VA			
Set Point (I Δ n)	0.03, 0.1, 0.3, 0.5, 1.0, 3.0, 5.0, 10.0, 20.0 & 30.0 Amps		30mA / 100mA / 300mA (Factory set) Any other on request	300mA to 3.0 / 1A to 10A Any other on request
Delay	0 (< 25mS for Fault current >5xI Δ n), 60, 150, 250, 500, 800 msec, 1, 2, 5, 10, Sec		Less than 100ms	0.1 to 10 Sec Adjustable
Relay Contacts	1 Potential free contact (NO, C & NC) (energise on trip)			
Reset	Manual			
Trip Relay	80 - 90% of Set point			
Alarm Relay (Optional)	50% of Set Value		---	
Contact Rating	6 Amps / 230VAC / 28VDC			
Temperature	Operating: -10° C to 55° C, Storage: -20° C to +75° C			
Humidity	<95% RH (non condensing)			
Dimensions	Refer diagram A on page no. 19	Refer diagram E on page no. 19	Refer diagram D on page no. 19	Refer diagram E on page no. 19
Mounting	Door mounting (96x96)	Din (35 mm rail)	Din (35 mm rail) / 2 x m4 screw	Din (35 mm rail)
Input	CBCT 35/70/120/210mm ID		Inbuilt CBCT 25mm dia	Any Circular / Rectangular size on request
Special Features	CBCT open circuit detection		---	
			CBCT open circuit detection	



Dimension : 96x96 | Panel Cutout : 92x92

Description	DOOR MOUNT EARTH LEAKAGE RELAY		
Model	VIPS-98EFR (96x96)	VIPS-98L (96x96)	VIPS-98D (96x96)
Display	---	LCD display (Actual value of Leakage Current)	---
Input	1A/5A (I Δ n)	CBCT 35/70/120/210mm ID (any other circular / rectangular size on request)	
Auxiliary Supply	90 - 270VAC/DC	240VAC / 110VAC, (+15% -25%)	
Burden On Supply	<3 VA		
Set Point (I Δ n)	10% to 100% of (I Δ n)	10mA up to 30 Amps	1 - 8 Amps (Any other on request)
Delay	0.1 to 10 Sec	0 to 10 Sec	0.05 to 3 Sec
Relay Contacts	1 Potential free contact (NO, C & NC) / 2 C/O on request (energise on trip)	1 Potential free contact (NO, C & NC) / 2 C/O (energise or de-energise on trip programmable)	
Reset	Manual	Auto / Manual	
Trip Relay	80 - 90% of Set point	Can be set to any value between 10mA to 30A	
Alarm Relay	---	50 - 90% of Set Value / Same as trip relay	
Contact Rating	6 Amps / 230VAC / 28VDC		
Temperature	Operating: -10° C to 55° C, Storage: -20° C to +75° C		
Humidity	<95% RH (non condensing)		
Special Features	---	Password Protection / Bargraph as % of set point	CBCT open circuit detection

Common Features:

- All ratios available to match commonly available ELR's
- Slim Design
- Light Weight
- Encapsulated CBCT
- Terminals are finger proof touch as per IEC
- Highly Cost effective
- Compact in size

Specification:

System Voltage	720 V maximum	Distance Between Toroid and relay	< 50 meters
Insulation Voltage	3kV for 1minute	Operating Temperature	- 20° C to 70° C
System Frequency	50 Hz or 60 Hz	Humidity	<95% RH (non condensing)
Max. Permissible Current	1KA continues 5KA for 1.5 Sec.	Enclosure	Flame retardant glass filled ABS
Terminal Conductor	≤ 2.5mm ²	Compliance with	IEC 44 - 1 and IEC185
Current Ratio	1 / 1000, 1 / 600 any other on request	Mounting	Four Fixing Slots



Rectangular CBCT available in Customised Sizes

Round CBCT available in Customised Sizes



VIPS-VFT 01 VOLTAGE & Hz RELAY



VIPS-AT 01 CURRENT RELAY

Model	VOLTAGE & Hz RELAY	CURRENT RELAY
Features	<p>Programmable : A) Under / Over Voltage B) Under/Over Frequency C) Phase Failure D) Phase Reversal E) Voltage Asymmetry F) Power ON Delay & Auto Reset Time</p> <p>Configurable for 3 Phase & 1 Phase system Individual Faults can be deactivated as per system requirement Programmable Delay & Hysterises Auto / Manual Reset option Consistent reliability with high accuracy 3 Digit Bright Display to indicate Voltage / Hz. LED indication for healthy / faulty status</p>	<p>Programmable : A) CT Ratio B) Under / Over Current C) Phase Fail D) Phase Reversal E) Current Asymmetry F) Starting time delay & Auto reset time</p> <p>Configurable for 3 Phase & 1 Phase system Individual Faults can be deactivated as per system requirement Programmable Delay & Hysterises Auto / Manual Reset option Consistent reliability with high accuracy 3 Digit Bright Display to indicate Current. LED indication for healthy / faulty status</p>
System	3 Phase 4 wire / 1 Phase system	
Burden on Supply	< 3 VA	
Delay	0.2 Sec. to 99 Sec.	
Relay Contacts	2 Potential Free Contact (NO, C & NC) (De-Energise on Fault)	1 Potential Free Contact (NO, C & NC) (De-Energise on Fault)
Contact Rating	6 Amps / 230 V AC / 28 V DC	
Nominal Voltage	240 VAC	---
Nominal Current	---	5 Amps (Any other on request, 30A Direct optional)
Set Point	Voltage : +/- 25% of nominal, Hz : +/- 10 Hz Voltage Asymmetry : 0 - 99 V Hysterisis : 1% - 10%	10% - 120% of nominal current
Accuracy	Class 1	
Operating	-10° C to 55° C, Storage: -20° C to + 75° C	
Humidity	< 95% RH (non condensing)	
Dimension	90 x 45 x 75 mm (L x B x H)	
Mounting	Din (35 mm rail) / 2 x m4 screw	
Weight	200 gms	
Auxiliary Supply	90-270 V AC/DC	
Display	7 segment LED display.	

For Dimension refer diagram E on page no. 19



For Dimension refer diagram A on page no. 19

Dimension / Panel Cutout : 96x96 / 92x92

Description	ENGINE PROTECTION RELAY	MOTOR PROTECTION RELAY
Model	VIPS-802 (96x96)	VIPS83M (96x96)
Display	7 segment LED display, 0.56"	7 segment LED display, 0.39"
Digits	1 row of 3 digits	4 rows of 4 digits, Bargraph for % load current
System		3Ø-4 Wire
Auxiliary Supply	8.5VDC TO 32VDC	90 - 270VAC / DC
Burdon on Auxiliary	<3VA	
Current Input	---	0.05 to 6.00 Amps
Burden on CT	---	<0.2 VA for Voltage & Current input
Resolution	---	Volts: 1V, Hz: 0.1 Hz, Amps: 0-99 : 0.1A, 100-999 : 1A, >1000 : 0.01kA
Relay Contact	Potential Free Contact (NO & NC) A) Alarm Relay, B) Stop / Fuel Relay (2C/O), C) Cranking Relay	1 C / O potential free contact (NO, C NC) De-energise on fault
Contact Rating	5 Amps / 230VAC / 28VDC	
Potential Free Input	A) Start, B) Emergency Stop, C) Low Oil Pressure D) High Coolant Temp. E) Low Fuel Level	
Analog Input	30 - 300 VAC 50 / 60 Hz for Hz Measurement	
Parameter Displayed	VDC, Over speed limit, No. of start attempts, Frequency	V L-L Phase wise, VL-N Phase wise Ampere Phase wise, Frequency system, Earth leakage current, Run hours
Alarm	Over speed, Low lube oil pressure, High coolant temp. Low Fuel level, Emergency stop, Low battery voltage	Under / Over Voltage, Voltage asymmetry, Phase loss, Phase reversal, Under / Over current, Phase loss, Current asymmetry, Under / Over frequency, locked rotor, Rotor earth fault
Temperature / Humidity	Operating: -10° C to 55° C, Storage: -20° C to + 75° C, < 95% RH	



VIPS-101
UV, OV & PR VOLTAGE RELAY



VIPS-102
UNDER VOLTAGE RELAY
(DELAYED RESTART)

Description	UV / OV / PR RELAY	UNDER VOLTAGE RELAY (DELAYED, RESTART)
Model	VIPS-101	VIPS-102
Features	Consistent Reliability with High Accuracy Trip Setting through Front Panel Potentiometer Time Delay User Settable LED Indication For Healthy / Faulty Status Compact Size 17.5 mm DIN Under voltage / Over Voltage / Phase reversal Phase Loss & Voltage Assymetry	Consistent Reliability with High Accuracy Time Delay User Settable LED Indication For Healthy / Faulty Status Compact Size 17.5 mm DIN Under voltage relay, delayed restart
System	3 Phase 4 Wire / 1 Phase System / (3 Phase 3 Wire optional)	
Burden on Supply	< 3 VA	
Nominal Voltage	380 / 415 / 440VAC	
Delay	0.2 Sec. to 30 Sec.	5 to 15min (Restart time)
Set Point	± 25% of Nominal voltage for UV, OV	-25% of Nominal Voltage (Factory set)
Relay Contacts	1 Potential Free Contact, (NO, C & NC), (De-Energise on Fault)	
Contact Rating	6 Amps / 230 V AC / 28 V DC	
Temperature	Operating: -10° C to 55° C, Storage: -20° C to + 75° C	
Humidity	< 95% RH (non condensing)	
Dimension	78 x 17.5 x 97 mm (L x B x H)	
Mounting	Din (35 mm rail)	
Weight	75 gms	

For Dimension refer diagram F on page no. 19

Features :

- Kit available with Meter (VIPS 80P / VIPS 80L) & Clamp-ON CT's (3 Nos.)
- Self Powered
- Easy to operate & portable



Volts	RY (Phase - Phase)	Active Power	R Phase	Import Maximum Demand	Harmonics - Volts - Individual (upto 31 st) (on RS485)
	YB (Phase - Phase)	(KW)	Y Phase	Import Peak Maximum Demand	Harmonics - Amps - Individual (upto 31 st) (on Rs485)
	BR (Phase - Phase)		B Phase	Export Maximum Demand	Load Hour Timer - Import
	Average (Phase - Phase)		Total	Export Peak Maximum Demand	Load Hour Timer - Export
	RN (Phase - Neutral)	Reactive Power :	R Phase	Import Active Energy	ON Hour Timer (for which the meter is on with / without load)
	YN (Phase - Neutral)	(KVAr)	Y Phase	Import Reactive - Inductive Energy	
	BN (Phase - Neutral)		B Phase	Import Reactive - Capacitive Energy	Specification
	Average (Phase - Neutral)		Total	Import Apparent Energy	Input : 3 Phase 4 Wire / 1 Phase 2 Wire
Amps	R Phase	Apparent Power :	R Phase	Export Active Energy	Accuracy : Class 1 for energy, Class 0.5 for all other parameters
	Y Phase	(KVA)	Y Phase	Export Reactive -Inductive Energy	Display : 4 Line x 4 Digit, 0.39"
	B Phase		B Phase	Export Reactive - Capacitive Energy	Dimensions : 455 (L) X 360 (W) X 150 (D) mm
	Average		Total	Export Apparent Energy	
Frequency : System		Phasor Angle (Phase wise)		Harmonics - Volts -Total (THDV) -Phase wise	
Power Factor : R, Y, B, System		Phase Angle (Phase wise)		Harmonics - Amps -Total (THDI) -Phase wise	

VIPS-96 / VIPS-97 / VIPS-93

AC / DC VOLTAGE TRANSDUCER



AC/DC VOLTAGE TRANSDUCER



CURRENT TRANSDUCER



SIGNAL ISOLATOR / CONVERTOR

Description	AC/DC VOLTAGE TRANSDUCER	CURRENT TRANSDUCER	SIGNAL ISOLATOR / CONVERTOR	
Model	VIPS-96	VIPS-97	VIPS-93	VIPS-96 Input Range
Aux. Supply	230V /110VAC 50Hz (-20% +15%)			AC V : 0 - 63.5 / 110 / 230 300 / 440 / 500 V AC DC V : 0 - 1000VDC
Burden on Aux.	< 3 VA			
Temperature	-20° C to +55° C			
Humidity	< 95% RH (non condensing)			VIPS-97 Input Range
Accuracy	Class 1			AC A : 0 - 1A, 5A (Direct) CTR / 1A CTR / 5A
Response Time	0.5 Sec.			
Over Load Cap.	1.2 x rated Voltage continuous, 1.5 x rated Voltage for 10 Sec.	2 x rated Current continuous, 10 x rated Current for 10 Sec.	1.2 x rated Voltage continuous, 1.5 x rated Voltage for 10 Sec.	
Isolation	2 KV (4 KV on request)			VIPS-93 Input Range
Dimension	78x55x97mm (LxBxH)			DC mV : 0 - 100 mV DC V : 0 - 1 / 5 / 10V DC mA : 0 - 1 / 10 / 16 / 20 mA 4 - 20 mA 2 - 10 mA
Mounting	Din (35 mm rail) / 2 x m4 screw			
Weight	400 gms			
Output Range	DC V	0 - 1V (Burden : 1K Ω) 0 - 5 / 1 - 5 V (Burden : 5K Ω) 0 - 10 / 2 - 10 V (Burden : 10K Ω)	DC mA	0 - 1mA (Burden : 10K Ω) 0 - 5 mA (Burden : 2K Ω) 0 - 10 / 2 - 10 mA (Burden : 1K Ω) 0 - 20 / 4 - 20 mA (Burden : 500Ω)

Common Features:

- Apertures accepting a wide range of busbar size.
- Easy Busbar Mounting.
- CT's are ultrasonically welded and are unbreakable.
- Terminals are finger touch proof for safety
- Highly Cost effective.
- Compact in size:

Specification:

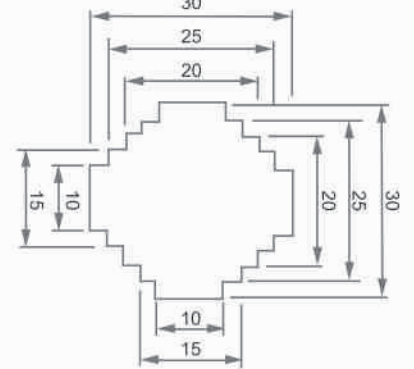
System Voltage	720 V maximum	Saturation coefficient	< 5
Test Voltage	3kV for 1minute	Insulation Class	Class E
System Frequency	50 Hz or 60 Hz	Secondary terminals	M5 Screw clamps
Primary ratings	From 50A to 4000A	Operating Temperature	-20° C to +70° C
Secondary outputs	5A is standard; 1A on request	Humidity	< 95% RH (non condensing)
Short circuit thermal Current (Ith)	60 x Rated primary current for 1 sec	Enclosure	Flame retardant glass filled ABS
Over load withstand	1.2 times rated current continuously	Compliance with	VE 404 and IEC185 / IEC61869
Rated dynamic Current	2.55 x Ith	Mounting hardware	Feet and Busbar screws



MODEL-301

MODEL	RATIO		1 VA	2.5 VA	5 VA
301-60/5A	60/5A	CLASS	3	-	-
301-75/5A	75/5A	CLASS	3	-	-
301-80/5A	80/5A	CLASS	3	-	-
301-100/5A	100/5A	CLASS	1	-	-
301-125/5A	125/5A	CLASS	1	-	-
301-150/5A	150/5A	CLASS	1	3	-
301-200/5A	200/5A	CLASS	-	1	-
301-250/5A	250/5A	CLASS	-	1	-
301-300/5A	300/5A	CLASS	-	1	3
301-400/5A	400/5A	CLASS	-	-	1
301-500/5A	500/5A	CLASS	-	-	1
301-600/5A	600/5A	CLASS	-	-	1

Bus Bar Dimension



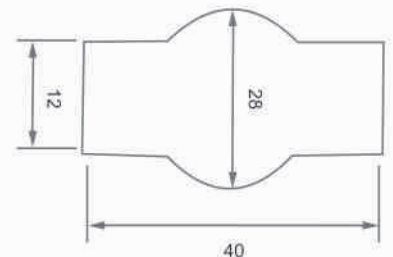
Outer Dimension : 49 x (W) x 73.5 (H) x 32 (D)



MODEL-401

MODEL	RATIO		2.5 VA	5 VA	7.5 VA
401-150/5A	150/5A	CLASS	3	-	-
401-200/5A	200/5A	CLASS	1	-	-
401-250/5A	250/5A	CLASS	1	-	-
401-300/5A	300/5A	CLASS	1	3	-
401-400/5A	400/5A	CLASS	-	1	3
401-500/5A	500/5A	CLASS	-	0.5	1
401-600/5A	600/5A	CLASS	-	0.5	1
401-750/5A	750/5A	CLASS	-	0.5	1
401-800/5A	800/5A	CLASS	-	0.5	1

Bus Bar Dimension



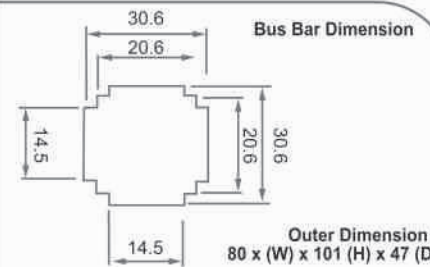
Outer Dimension : 60 x (W) x 80 (H) x 32 (D)



MODEL-501

MODEL	RATIO		10 VA
501-125/5A	125/5A	CLASS	0.5
501-150/5A	150/5A	CLASS	0.5
501-200/5A	200/5A	CLASS	0.5
501-250/5A	250/5A	CLASS	0.5
501-300/5A	300/5A	CLASS	0.5
501-400/5A	400/5A	CLASS	0.5

Bus Bar Dimension



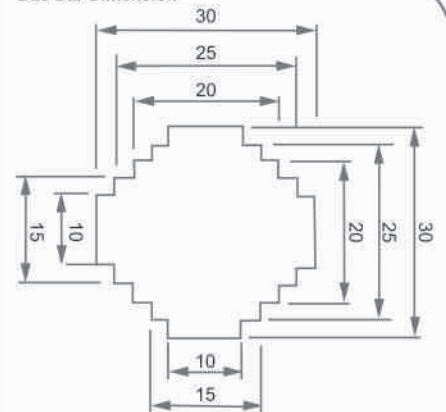
Outer Dimension : 80 x (W) x 101 (H) x 47 (D)



MODEL-3301

MODEL	RATIO		1.25 VA	2.5 VA	5 VA	10 VA
3301-50/5A	50/5A	CLASS	3	-	-	-
3301-60/5A	60/5A	CLASS	1	-	-	-
3301-75/5A	75/5A	CLASS	1	-	-	-
3301-80/5A	80/5A	CLASS	1	-	-	-
3301-100/5A	100/5A	CLASS	-	-	1	-
3301-125/5A	125/5A	CLASS	-	-	1	-
3301-150/5A	150/5A	CLASS	-	-	1	-
3301-200/5A	200/5A	CLASS	-	-	1	-
3301-250/5A	250/5A	CLASS	-	-	-	1
3301-300/5A	300/5A	CLASS	-	-	-	1
3301-400/5A	400/5A	CLASS	-	-	-	1
3301-500/5A	500/5A	CLASS	-	-	-	1
3301-600/5A	600/5A	CLASS	-	-	-	1
3301-750/5A	750/5A	CLASS	-	-	-	1

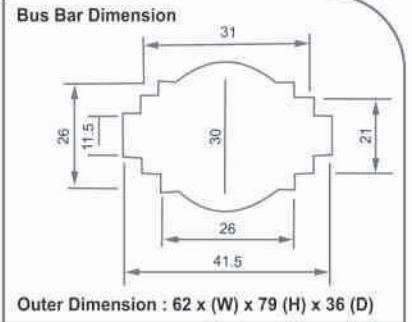
Bus Bar Dimension



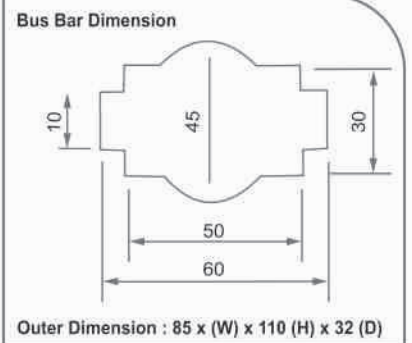
Outer Dimension : 62 x (W) x 79 (H) x 36 (D)



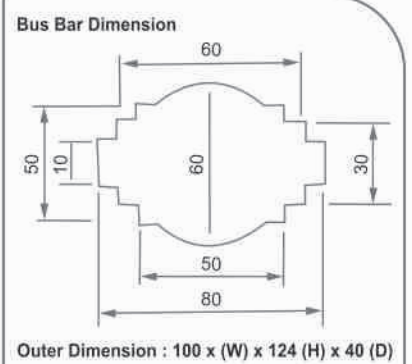
MODEL	Class 1	
	Burden (VA)	
4401-150/5A	2.5	
4401-200/5A	2.5	
4401-250/5A	2.5	
4401-300/5A		5
4401-400/5A		5
4401-500/5A		5
4401-600/5A		5
4401-750/5A		5
4401-800/5A		5



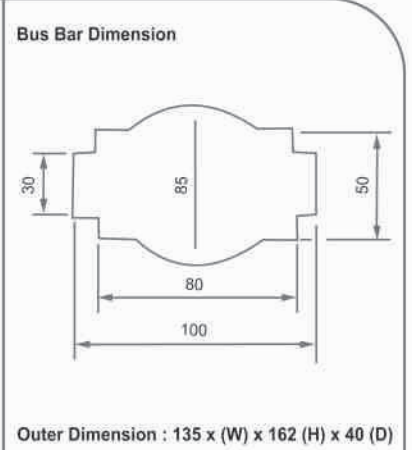
MODEL	Class 1		Class 0.5	
	Burden (VA)		Burden (VA)	
601-200/5A	2.5			
601-250/5A	2.5	5		
601-300/5A	2.5	5		
601-400/5A	2.5	5	10	
601-500/5A	5	7.5	15	10
601-600/5A	5	10	15	10
601-750/5A	5	10	15	10
601-800/5A	5	10	15	10
601-1000/5A	10	15	15	10
601-1200/5A	10	15	30	10
601-1250/5A	10	15	30	10
601-1500/5A	10	15	30	10
601-1600/5A	10	15	30	10



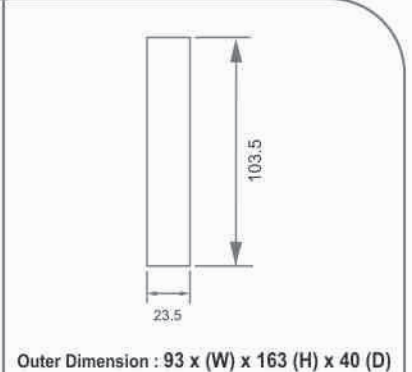
MODEL	Class 1		Class 0.5	
	Burden (VA)		Burden (VA)	
801-400/5A	2.5		5	5
801-500/5A	2.5	5	7.5	5
801-600/5A	2.5	5	10	5
801-750/5A	2.5	5	10	10
801-800/5A	5	7.5	10	10
801-1000/5A	5	7.5	10	10
801-1200/5A	5	7.5	10	10
801-1250/5A	5	7.5	10	10
801-1500/5A	5	10	15	10
801-1600/5A	5	10	15	10
801-2000/5A	5	10	15	10



MODEL	Class 1		Class 0.5	
	Burden (VA)		Burden (VA)	
1001-400/5A	5			
1001-500/5A	5			
1001-600/5A	5	10		10
1001-750/5A	5	10		10
1001-800/5A	5	10		10
1001-1000/5A	5	10		15
1001-1200/5A	5	10	15	15
1001-1250/5A	5	10	15	15
1001-1500/5A	5	10	15	15
1001-1600/5A	5	10	15	15
1001-2000/5A	5	10	15	15
1001-3000/5A	5	10	15	15
1001-4000/5A	5	10	15	15



MODEL	Class 1		Class 0.5	
	Burden (VA)		Burden (VA)	
1020-750/5A	10		10	
1020-800/5A	10		10	
1020-1000/5A	10		15	
1020-1200/5A	10		15	
1020-1250/5A	10		15	
1020-1500/5A	15		15	
1020-1600/5A	15		15	
1020-2000/5A	15		15	
1020-2500/5A	15		15	
1020-3000/5A	15		15	




Common Features:

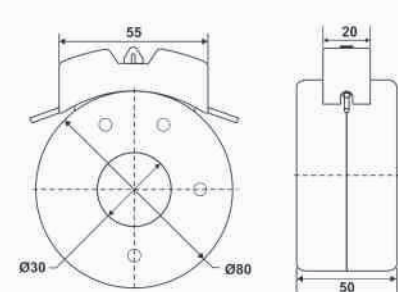
- Easy Busbar Mounting.
- CT's are ultrasonically welded and are unbreakable.
- Terminals are finger touch proof for safety
- Highly Cost effective.
- Compact Round CT

Specification:

System Voltage	720 V maximum	Saturation coefficient	< 5
Test Voltage	3kV for 1minute	Insulation Class	Class E
System Frequency	50 Hz or 60 Hz	Secondary terminals	M5 Screw clamps
Primary ratings	From 50A to 1200A	Operating Temperature	-20° C to +70° C
Secondary outputs	5A is standard; 1A on request	Humidity	< 95% RH (non condensing)
Short circuit thermal Current (Ith)	60 x Rated primary current for 1 sec	Enclosure	Flame retardant glass filled ABS
Over load withstand	1.2 times rated current continuously	Compliance with	VE 404 and IEC185 / IEC61869
Rated dynamic Current	2.55 x Ith	Mounting hardware	Feet and Busbar screws




MODEL	Ratio		1 (VA)	2.5 (VA)	5 (VA)
VIPS 308050-60/5-3-1	60/5	Class	3	-	-
VIPS 308050-75/5-3-1	75/5	Class	3	-	-
VIPS 308050-80/5-3-1	80/5	Class	3	-	-
VIPS 308050-100/5-1-1	100/5	Class	1	-	-
VIPS 308050-150/5-1-2.5	150/5	Class	-	1	-
VIPS 308050-200/5-1-2.5	200/5	Class	-	1	-
VIPS 308050-250/5-1-5	250/5	Class	-	1	-
VIPS 308050-300/5-1-5	300/5	Class	-	-	1
VIPS 308050-400/5-1-5	400/5	Class	-	-	1
MODEL	Ratio		Higher Burden 5 (VA)		
VIPS 308050-100/5-1-5	100/5	Class	1		
VIPS 308050-150/5-1-5	150/5	Class	1		
VIPS 308050-200/5-1-5	200/5	Class	1		
VIPS 308050-250/5-1-5	250/5	Class	1		



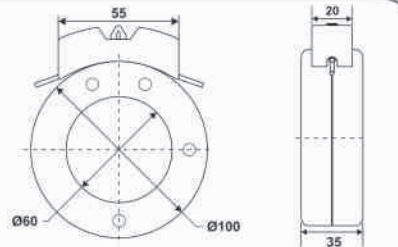



MODEL	Ratio		2.5 (VA)	5 (VA)
VIPS 439241-150/5-1-2.5	150/5	Class	1	-
VIPS 439241-200/5A-1-2.5	200/5A	Class	1	-
VIPS 439241-250/5A-1-2.5	250/5A	Class	1	-
VIPS 439241-300/5A-1-5	300/5A	Class	-	1
VIPS 439241-400/5A-1-5	400/5A	Class	-	1



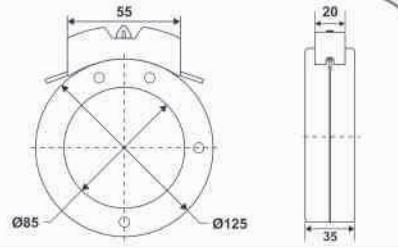



MODEL	Ratio		5 (VA)	10 (VA)
VIPS 6010035-300/5-1-5	300/5	Class	1	-
VIPS 6010035-400/5-1-10	400/5	Class	-	1
VIPS 6010035-500/5-1-10	500/5	Class	-	1
VIPS 6010035-600/5-1-10	600/5	Class	-	1



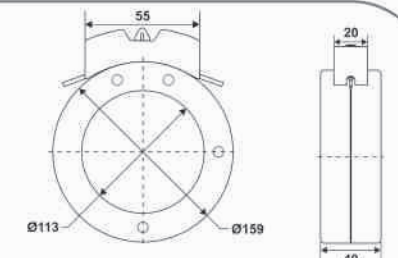


MODEL	Ratio		10 (VA)	
VIPS 8512535-400/5-1-10	400/5	Class	1	
VIPS 8512535-500/5-1-10	500/5	Class	1	
VIPS 8512535-600/5-1-10	600/5	Class	1	
VIPS 8512535-750/5-1-10	750/5	Class	1	
VIPS 8512535-800/5-1-10	800/5	Class	1	
VIPS 8512535-1000/5-1-10	1000/5	Class	1	





MODEL	Ratio		10 (VA)	
VIPS 11315940-800/5-1-10	800/5	Class	1	
VIPS 11315940-1000/5-1-10	1000/5	Class	1	
VIPS 11315940-1200/5-1-10	1200/5	Class	1	





Description	STAR DELTA TIMER	CYCLIC TIMER	FORWARD PAUSE REVERSE TIMER
Model	VIPS-99 SD	VIPS-99C	VIPS-99 FPR
Features	Consistent Reliability with High Accuracy Low Cost Run Up Time & Change Over Time User Settable LED Indication for Star & Delta relay Compact Size	Consistent Reliability with High Accuracy Low Cost Cyclic with Unequal ON & OFF Time Cyclic ON First / OFF First User Settable LED Indication for Power ON / Relay ON Compact Size	Consistent reliability with high accuracy Forward & Reverse relay Compact size
Auxiliary Supply	230VAC / 415 VAC, 50/60Hz & 24V AC/DC	230 VAC & 24 V AC / DC 110VAC & 240V AC / DC	
Run Up Time	0 - 30 / 60 Sec.	---	
Change Over time	50 / 100 msec.	---	
Relay Contacts	1 C/O Potential Free Contact (NO, C & NC) 2 C/O on request		
Contact Rating	5 Amps / 230VAC / 28VDC		
ON / OFF Time Ranges		1 / 10 Sec. / Min. / Hr.	
ON Time Ranges	---		1 / 2 / 4 / 8 Min.
Pause Time Ranges	---		10 / 20 / 40 / 80 Sec.
Accuracy	± 5% of full Scale		
Repeatability	Repeatability : ±0.5%		
Reset Time	<100m Sec. on power interruption		
Temperature	Operating: -10° C to 55° C, Storage: -20° C to +75° C		
Humidity	< 95% RH (non condensing)		
Dimension	22.5 x 77 x 105 mm (W x L x H)		
Mounting	Din (35 mm rail) / 2 x m4 screw		
Weight	120 gms	130 gms	120 gms



Features

- Consistent Reliability with High Accuracy
- Low Cost
- Time Delay User Settable (4 Ranges)
- LED Indication for Power & Relay status
- Compact Size
- ON Delay / Interval Modes of Operations



Features

- Consistent Reliability with High Accuracy
- Low Cost
- Time Delay User Settable (4 Ranges)
- LED Indication for Power & Relay status
- Compact Size

Description	TIMER	MULTIFUNCTION TIMER
Model	VIPS-99	VIPS-99 MF
Auxiliary Supply	230VAC 50/60 Hz & 24V AC/DC, 110VAC 50/60Hz & 24V AC/DC	
Relay Contacts	1 C/O Potential Free Contact (NO, C & NC) 2 C/O on request	
Contact Rating	5 Amps / 230 V.AC / 28 V DC	
Time Ranges	0 - 15 / 60 Sec. / 7.5 / 60 min.	0 - 1 / 3 / 10 / 30 Sec. / min. / Hr.
Accuracy	± 5% of full Scale	
Repeatability	Repeatability : ±0.5%	
Reset Time	<100m Sec. on power interruption	
Temperature	Operating: -10° C to 55° C, Storage: -20° C to + 75° C	
Humidity	< 95% RH (non condensing)	
Dimension	17.5 x 91 x 64 mm (W x L x H)	22.5 x 77 x 105 mm (W x L x H)
Mounting	Din (35 mm rail)	Din (35 mm rail) / 2 x m4 screw
Weight	65 gms	120 gms



Features

VIPS SPR-WATTS	VIPS-TH NO/NC THERMOSTAT	VIPS-DTH DUAL THERMOSTAT	VIPS-HG HYGROSTAT
Pressure clamps connectors	Large Setting Range, Small Size, Simple to Mount, Thermostatic Bimetal Sensor, Sharp Action Contact, Low Contact Resistance		
Dynamic Heating up, Temperature Limiting	Available in NO / NC Types:	Dual NO & NC contact available	Available in 1 C/O (NO, C, NC contact)
Wide Voltage Range, Energy Saving	Range : 0° C to 60° C		Range : 40 to 90% RH
Extruded Aluminium Profile, Anodised	Contact : 10A / 250 VAC, 15A / 120 VAC	Contact : 10A / 250 VAC, 15A / 120 VAC	Contact : 10A / 250 VAC, 15A / 120 VAC
PTC Resistor, Self Regulating	Dimension : 60 x 33 x 43 (L x W x D mm)	Dimension : 66 x 50 x 45 (L x W x D mm)	Dimension : 66 x 50 x 38 (L x W x D mm)
Temperature limiting, Clip Fixing			
Quick Installation			
Available in 25, 30, 45, 60 & 75 watts			

VIPS SC01 / VIPS SC02 / VIPS SC03 / VIPS SC04

SPLIT CORE CT



MODEL-VIPS SC01

Primary : 100A to 400
 Secondary : 5A / 1A
 Bus Bar Dimension : 21 (H) x 31 (W)



MODEL-VIPS SC02

Primary : 250A to 1000
 Secondary : 5A / 1A
 Bus Bar Dimension : 50 (H) x 80 (W)



MODEL-VIPS SC03

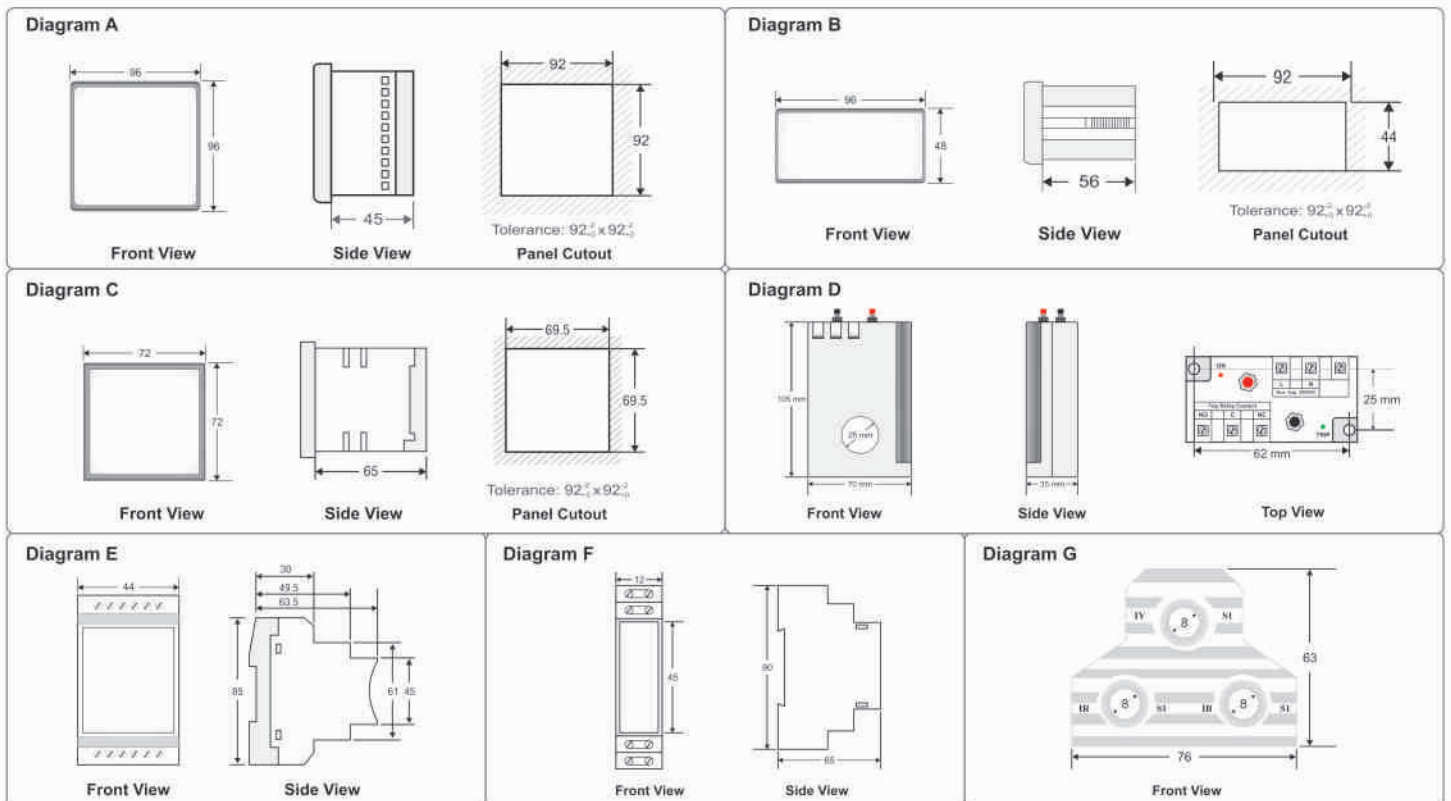
Primary : 500A to 1500
 Secondary : 5A / 1A
 Bus Bar Dimension : 80 (H) x 120 (W)



MODEL-VIPS SC04

Primary : 1000A to 4000
 Secondary : 5A / 1A
 Bus Bar Dimension : 80 (H) x 160 (W)

DIMENSIONS



Applications



VRAJ LINK

House of Changeover & Automatic transfer switch

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