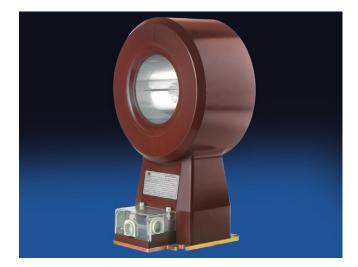


Ritz Instrument Transformers Price List 2017















1.0. Medium Voltage Current and Voltage Transformers

1.1 General

Instrument transformers are transformers, which convert high currents or voltages into measurable and standardized currents or voltages, which are proportional and in-phase to the primary signal. They are intended to supply electrical measuring instruments, meters, relays or other electrical devices.



CT according to DIN-Design

Current Transformer

A current transformer is designed to convert the primary rated current which flows through the primary winding.

The secondary winding must generally be short circuited at any time, otherwise dangerous high voltages can occur at the secondary terminals.

The secondary connected devices are connected in series.

Current Transformers can be equipped with one or more independent magnetic cores with equal or different characteristics for measuring, metering and/or protective purposes.



PT according to DIN-Design

Voltage Transformer

Voltage transformers have only one iron core with attached secondary winding (s).

If an open delta circuit (da-dn) is necessary, an additional winding can be provided for single pole insulated transformers.

It is extremely dangerous to short circuit a voltage transformer.

For single pole insulated transformers the end of the primary winding is grounded as "N" inside of the secondary terminal box, and must not be removed during operation.

AIS 12kV Voltage Transformer Series. GSES12-01RS

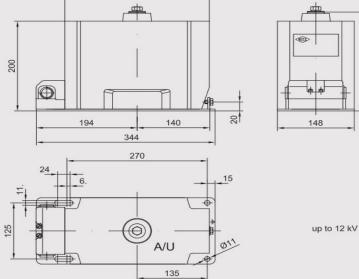
• Feature:

The secondary terminals are embedded in the resin body and protected by a removable plastic box, and can be sealed. Grounding screw is connected to the bottom plate.

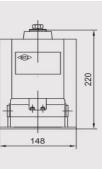
• Standard

Indoor application, complied with IEC61869-3 Insulation Level: 12/28/75kV, Class: E Voltage Withstand: 1.9Un/8h & 1.2Un/continuous



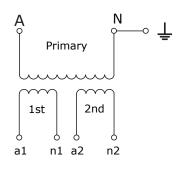


278

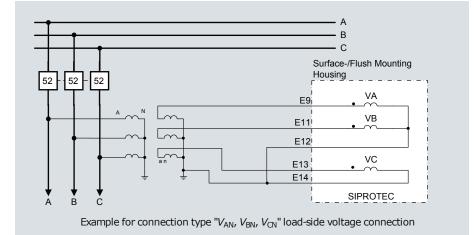


						approx.weig	jht =28kg	
Туре	Rated	Primary		Second		VA		
	Voltage	Voltage		1st core(measuring)		protection)	rating	Unit Price
		14	Sec.Voltage	Class	Sec.Voltage	Class		
	kV	Vpn V	Vsn1		Vsn2 V	class)	VA	(THB)
	۸V	v	v		V	ciass)	VA	(тпв)
	3.6	3300 / 🗸 3	110/√3	0.5	110/√3	3P	40	22,500.00
GSES12-01RS	7,2	6600 / $\sqrt{3}$	110/√3	0.5	110/√3	3P	40	22,500.00
	12	11000 / √ 3	110/√3	0.5	110/√3	3P	40	22,500.00

• Outline Drawing :



Schematic double core insulated voltage transformer



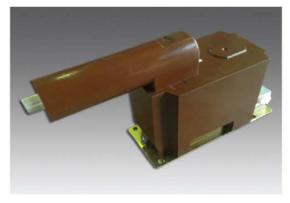
AIS 12kV Voltage Transformer Series. GSES12-14RS

• Feature:

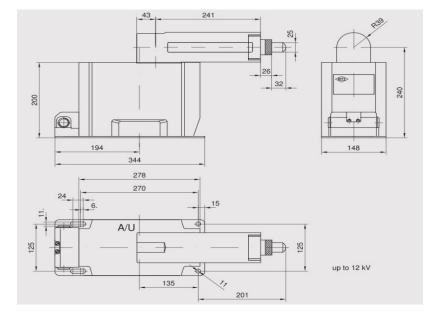
The secondary terminals are embedded in the resin body and protected by a removable plastic box, and can be sealed. Primary fuse is included, no extra fuse and space required.

Standard

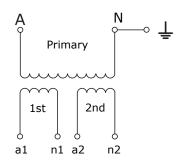
Indoor application, complied with IEC61869-3 Insulation Level: 12/28/75kV, Class: E Voltage Withstand: 1.9Un/8h & 1.2Un/continuous



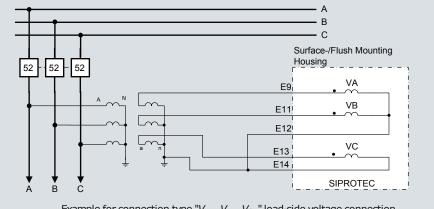
Outline Drawing :



						approx.weight =28kg			
Туре	Rated	Primary		Second		VA			
	Voltage	Voltage	1st core(m	1st core(measuring)		2nd core(protection)		Unit Price	
			Sec.Voltage	Class	Sec.Voltage	Class			
		Vpn	Vsn1		Vsn2				
	kV	V	V		V	class)	VA	(THB)	
	3,6	3300 / v 3	110/v3	0.5	110/v3	3P	40	37,000.00	
GSES12-14RS	7,2	6600 / v 3	110/v3	0.5	110/√3	ЗP	40	37,000.00	
	12	11000 / v 3	110/v3	0.5	110/ 13	3P	40	37,000.00	



Schematic double core insulated voltage transformer



Example for connection type " V_{AN} , V_{BN} , V_{CN} " load-side voltage connection

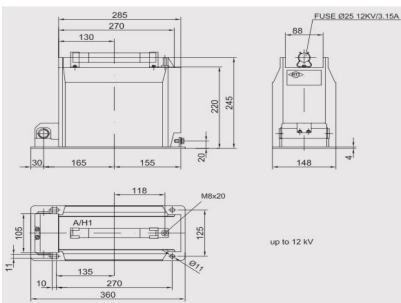


AIS 12kV Voltage Transformer Series. GSES12-34RS

• Feature :

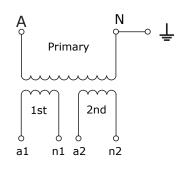
The secondary terminals are embedded in the resin body and protected by a removable plastic box, and can be sealed. Primary fuse is included, no extra fuse and space required. • Standard :

Indoor application, complied with IEC61869-3 Insulation Level: 12/28/75kV, Class: E Voltage Withstand: 1.9Un/8h & 1.2Un/continuous

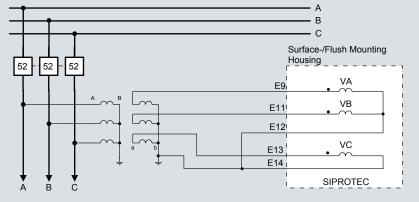


						approx.weight =28kg		
Туре	Rated	Primary		Secon	VA			
	Voltage	Voltage	1st core(m	easuring)	2nd core(p	protection)	rating	Unit Price
		Vpn	Sec.Voltage Vsn1	Class	Sec.Voltage Vsn2	Class		
	kV	V	V		V	class)	VA	(THB)
	3,6	3300/ 13	110/v3	0.5	110/v3	3P	40	35,250.00
GSES12-34RS	7,2	6600/ v3	110/v3	0.5	110/v3	3P	40	35,250.00
	12	11000 / v 3	110/v3	0.5	110/v3	3P	40	35,250.00
GSES12-34RS	7,2	6600/v3	110/v3	0.5	110 / v 3	3P	40	38

• Outline Drawing :



Schematic double core insulated voltage transformer



Example for connection type " V_{AN} , V_{BN} , V_{CN} " load-side voltage connection

- RITZ

AIS24 24kV Voltage Transformer Series GSE24

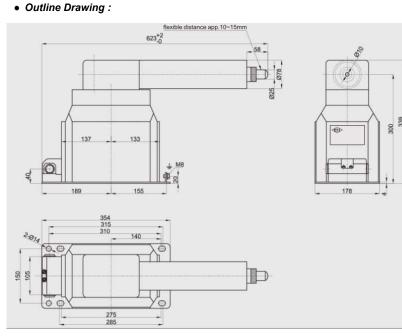
RITZ

• Feature :

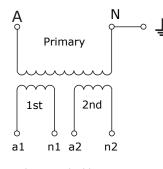
The secondary terminals are embedded in the resin body and protected by a removable plastic box, and can be sealed. Primary fuse is included, no extra fuse and space required. • Standard :

Indoor application, complied with IEC61869-3 Insulation Level: 24/50/125kV, Class: E Voltage Withstand: 1.9Un/8h & 1.2Un/continuous

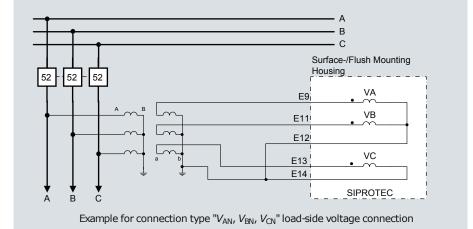




						approx.weight =35kg			
Туре	Rated	Primary		Second		VA			
	Voltage	Voltage	1st core(m	1st core(measuring)		2nd core(protection)		Unit Price	
			Sec.Voltage	Class	Sec.Voltage	Class			
		Vpn	Vsn1		Vsn2				
	kV	V	V		V	class)	VA	(THB)	
GSE 24	24	22000 /v 3	110 / v 3	0.5	110/v3	3P	40	46,500.00	



Schematic double core insulated voltage transformer



AIS 12kV Current Transformer Series. GSWS12-01RS / GSWS12-05RS 12kV 25kA



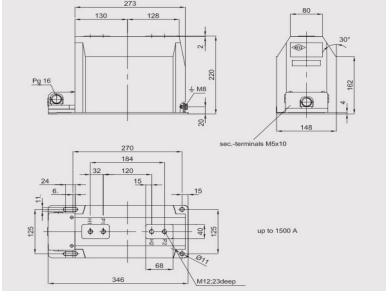
• Feature :

The secondary terminals are embedded in the resin body and protected by a removable plastic box, and can be sealed. Capacitive Layer 20pF can be added as option for voltage indication.

• Standard :

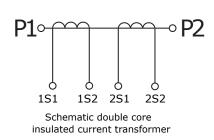
Indoor application, complied with IEC61869-2 Insulation Level: 12/28/75kV, Class: E Secondary current is 5A or 1A (by order)

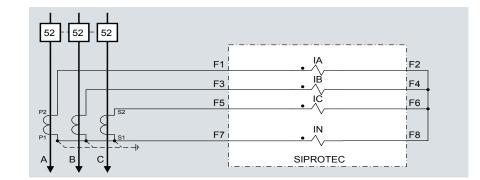




								approx.weig	ght =19.5kg
Гуре	Rated	Rated		Rated seco	ondary current		Rated	VA	
	Voltage	primary	1st e	core	2nd	core	short-time	rating	Unit Price
		current	Sec.Current	Class	Sec.Current	Class	thermal		
	Um	Ipn	lsn1	(measuring-	lsn2	(protection-	current(lth)		
	kV	Α	А	class)	А	class)	kA/1s	VA	(THB)
		50	5	0.5	5	5P10	25	10	22,650.0
		100	5	0.5	5	5P10	25	10	22,650.0
		150	5	0.5	5	5P10	25	10	22,650.0
		200	5	0.5	5	5P10	25	10	20,400.0
		250	5	0.5	5	5P10	25	10	20,400.0
		300	5	0.5	5	5P10	25	10	20,400.0
GSWS12-01RS	12	400	5	0.5	5	5P10	25	10	20,400.0
0011012-01110	12	500	5	0.5	5	5P10	25	10	20,400.0
		600	5	0.5	5	5P10	25	10	20,400.0
		800	5	0.5	5	5P10	25	10	20,400.0
		1000	5	0.5	5	5P10	25	10	20,600.0
		1200	5	0.5	5	5P10	25	10	22,900.0
		1500	5	0.5	5	5P10	25	10	25,750.0
GSWS12-05RS	12	2000	5	0.5	5	5P10	25	10	25,800.0
2011012-00110	12	2500	5	0.5	5	5P10	25	10	29,150.0
GIS12K	12	3000	5	0.5	5	5P10	25	10	37,075.0

• Outline Drawing :





AIS 12kV Current Transformer Series. GSWS12-01RS / GSWS12-05RS 12kV 31.5kA

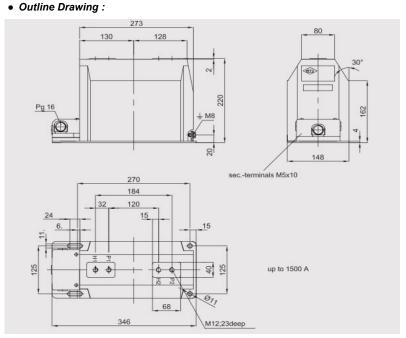


• Feature :

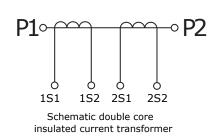
The secondary terminals are embedded in the resin body and protected by a removable plastic box, and can be sealed. Capacitive Layer 20pF can be added as option for voltage indication. • Standard :

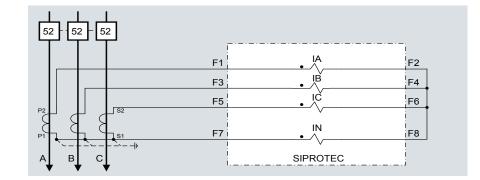
Indoor application, complied with IEC61869-2 Insulation Level: 12/28/75kV, Class: E Secondary current is 5A or 1A (by order)





				approx.weight =19.5kg					
уре	Rated	Rated		Rated seco	ondary current		Rated	VA	
	Voltage	primary	1st e	core	2nd	core	short-time	rating	Unit Price
		current	Sec.Current	Class	Sec.Current	Class	thermal		
	Um	Ipn	lsn1	(measuring-	lsn2	(protection-	current(Ith)		
	kV	A	A	class)	A	class)	kA/1s	VA	(THB)
		100	5	0.5	5	5P10	31.5	10	23,000.0
		150	5	0.5	5	5P10	31.5	10	23,000.0
		200	5	0.5	5	5P10	31.5	10	23,000.0
		250	5	0.5	5	5P10	31.5	10	23,000.0
		300	5	0.5	5	5P10	31.5	10	23,000.
GSWS12-01RS	12	400	5	0.5	5	5P10	31.5	10	23,000.
0011012 01110	12	500	5	0.5	5	5P10	31.5	10	23,000.0
		600	5	0.5	5	5P10	31.5	10	23,000.0
		800	5	0.5	5	5P10	31.5	10	23,000.0
		1000	5	0.5	5	5P10	31.5	10	23,000.0
		1200	5	0.5	5	5P10	31.5	10	23,000.0
		1500	5	0.5	5	5P10	31.5	10	25,750.0
GSWS12-05RS	12	2000	5	0.5	5	5P10	31.5	10	25,750.0
00012-0010	12	2500	5	0.5	5	5P10	31.5	10	29,150.0
GIS12K	12	3000	5	0.5	5	5P10	31.5	10	37,080.0





Medium Voltage Instrument Transformers

AIS 12kV Current Transformer Series. GSWS12-01RS / GSWS12-05RS 12kV 40kA



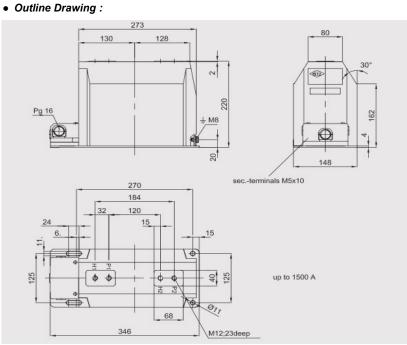
• Feature :

The secondary terminals are embedded in the resin body and protected by a removable plastic box, and can be sealed. Capacitive Layer 20pF can be added as option for voltage indication.

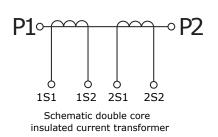
• Standard :

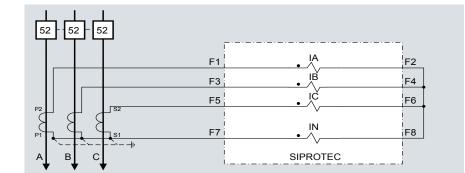
Indoor application, complied with IEC61869-2 Insulation Level: 12/28/75kV, Class: E Secondary current is 5A or 1A (by order)





							approx.weight =19.5kg		
Туре	Rated Voltage	Rated primary	1st o		ondary current 2nd	core	Rated short-time	VA rating	Unit Price
	Um	current Ipn	Sec.Current Isn1	Class (measuring-	Sec.Current Isn2	Class (protection-	thermal current(lth)		
	kV	Â	А	class)	А	" class)	kA/1s	VA	(THB)
		100	5	0.5	5	5P10	40	10	24,750.00
		150 200	5 5	0.5 0.5	5 5	5P10 5P10	40 40	10 10	24,750.00 24,750.00
		250 300	5 5	0.5 0.5	5 5	5P10 5P10	40 40	10 10	24,750.00 24,750.00
GSWS12-01RS	12	400	5	0.5	5	5P10	40	10	24,750.00
		500 600	5 5	0.5 0.5	5 5	5P10 5P10	40 40	10 10	24,750.00 24,750.00
		800 1000	5 5	0.5 0.5	5 5	5P10 5P10	40 40	10 10	24,750.00 24,750.00
		1200 1500	5 5	0.5 0.5	5 5	5P10 5P10	40 40	10 10	24,750.00 28,000.00
GSWS12-05RS	12	2000 2500	5 5	0.5 0.5	5 5	5P10 5P10	40 40	10 10	28,000.00 31,200.00
GIS12K	12	3000	5	0.5	5	5P10	40	10	38,310.00





Medium Voltage Instrument Transformers

AIS 24kV Current Transformer Series. GSWS24-01 24kV 25kA

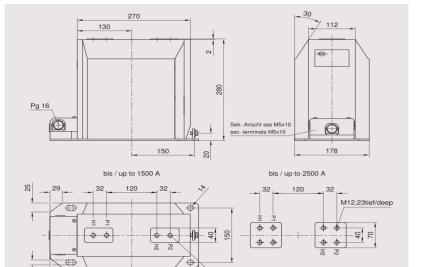


• Feature :

The secondary terminals are embedded in the resin body and protected by a removable plastic box, and can be sealed. Capacitive Layer 20pF can be added as option for voltage indication. • Standard :

Indoor application, complied with IEC61869-2 Insulation Level: 24/50/125kV, Class: E Secondary current is 5A or 1A (by order)





M12;23tief/deep

20

								approx.wei	ght =28kg
Туре	Rated	Rated		Rated seco	ondary current		Rated	VA	
	Voltage	primary	1st e	core	2nd	core	short-time	rating	Unit Price
		current	Sec.Current	Class	Sec.Current	Class	thermal		
	Um	Ipn	lsn1	(measuring-	lsn2	(protection-	current(Ith)		
	kV	A	A	class)	А	class)	kA/1s	VA	(THB)
			_	0.5	_	5540		40	00 500 00
		50	5	0.5	5	5P10	25	10	26,500.00
		100	5	0.5	5	5P10	25	10	26,500.00
		150	5	0.5	5	5P10	25	10	26,500.00
		200	5	0.5	5	5P10	25	10	26,500.00
		250	5	0.5	5	5P10	25	10	26,500.00
		300	5	0.5	5	5P10	25	10	26,500.00
GSWS24-01RS	22	400	5	0.5	5	5P10	25	10	26,500.00
		500	5	0.5	5	5P10	25	10	26,500.00
		600	5	0.5	5	5P10	25	10	26,500.00
		800	5	0.5	5	5P10	25	10	26,500.00
		1000	5	0.5	5	5P10	25	10	27,000.00
		1200	5	0.5	5	5P10	25	10	27,000.00
		1500	5	0.5	5	5P10	25	10	27,000.00
		2000	5	0.5	5	5P10	25	10	31,500.00
		2500	5	0.5	5	5P10	25	10	34,000.00

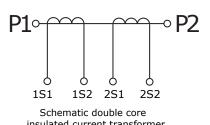
14

140

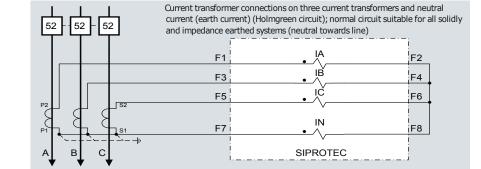
280 355

10

• Outline Drawing :



insulated current transformer



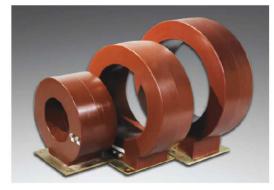
ZERO-SEQUENCE PROTECTION CT SERIES **RK-2716 CURRENT TRANSFORMER**



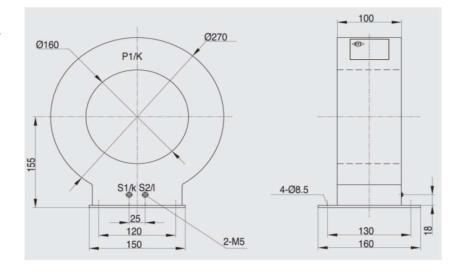
• Feature :

The secondary terminals are embedded in the resin body and protected by a removable plastic box, and can be sealed. Capacitive Layer 20pF can be added as option for voltage indication. • Standard :

Indoor application, complied with IEC61869-2 Insulation Level: 24/50/125kV, Class: E Secondary current is 5A or 1A (by order)



• Outline Drawing :

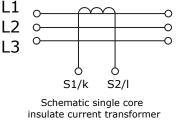


Approx.Weight=15kg

Туре	Rated Voltage Um	Rated primary current Ipn	Rated second 1st c Sec.Current Isn1		Insulation level	Inside Diameter	VA rating	Unit Price
	kV	A	А		kV	mm	VA	(THB)
	can be use	50 60	1 1	1 3				
RK 2716	in zero-sequence protection of the 12kV, 24kV and 40.5kV	75 100	1	5 5P10	0.72/3kV	160mm	2.5	20,600
	24k v and 40.5K v	150	1	5P10 10P10				







Zero-Sequence Protection

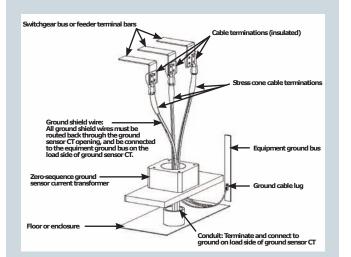


Figure 1: Correct cable installation with zero-sequence ground current transformers.

Medium Voltage Instrument Transformers