

LV & MV Voltage Transformer

LV & MV Current Transformer



PT. TS TRANSFORMER INDONESIA



CURRENT TRANSFORMERS ORDER FORM

INQUIRY/ORDER FORM FOR CURRENT TRANSFORMER

Form : Date :

Name : Dept. :

Customer :

Ref. No. : Quantity

Standard (IEC, ANSI, BS etc)

Rated insulation level kV Frequency Hz

Rated short-time current

1. Rated primary current A Time s

2. Rated primary current A

3. Rated primary current A 1 sec 2 sec 3 sec

Number of secondaries

4. Rated continuous thermal current A

5. Primary changeable

6. Secondary changeable

7. Capacitive voltage divider output terminal

8. Service conditions indoor outdoor

Rating plate(s) for device

Routine test

(All in English)

1st SECONDARY Measurement Protection

Rated primary current A

Rated secondary current A

Rated output VA

Accuracy class

Security factor FS/Accuracy limit factor ALF

If Callss X (V_{kp} , R_{ct} , I_o) \leq

$V_{kp} < =$ Volts

$R_{ct} < =$ Ohms

$I_o < =$ mA

2nd SECONDARY Measurement Protection

Rated primary current A

Rated secondary current A

Rated output VA

Accuracy class

Security factor FS/Accuracy limit factor ALF

If Callss X (V_{kp} , R_{ct} , I_o) \leq

$V_{kp} < =$ Volts

$R_{ct} < =$ Ohms

$I_o < =$ mA

3rd SECONDARY Measurement Protection

Rated primary current A

Rated secondary current A

Rated output VA

Accuracy class

Security factor FS/Accuracy limit factor ALF

If Callss X (V_{kp} , R_{ct} , I_o) \leq

$V_{kp} < =$ Volts

$R_{ct} < =$ Ohms

$I_o < =$ mA

In case of bushing or toroidal-ring CT; dimensions D_{out} : D_{in} : H(max) :

SPECIAL REQUIREMENTS/NOTES.....

PT. TS Transformer Indonesia reserves the right to change the specification and the dimension of the goods. Please ask for updated information. Customer designed products are also available.



LOW VOLTAGE CURRENT TRANSFORMER

CTI 3 BS-CR

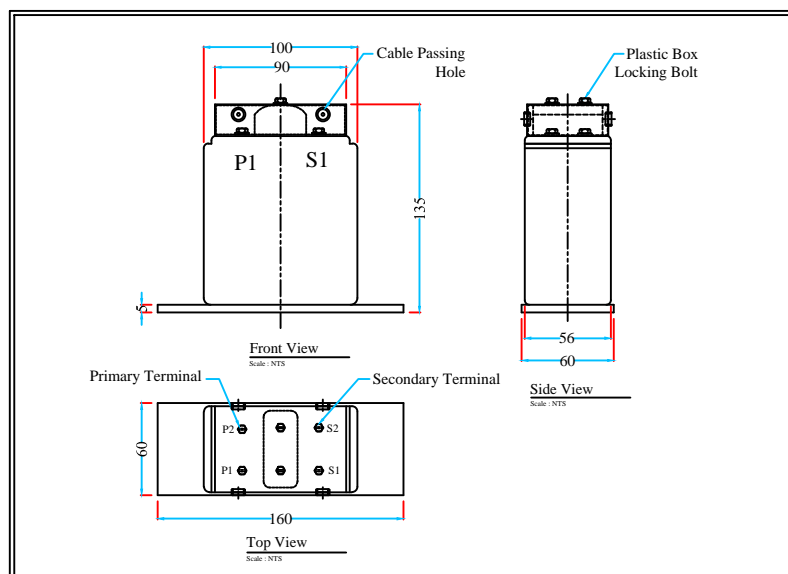
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor low voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violet (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	CTI 3 BS-CR	
Standard		IEC 61869-1 & 2 and SPLN D3.014-1:2009
Operating voltage (Max)	kV	0.72
Rated power frequency withstand test (1 Minute)	kV	3
Rated frequency	Hz	50 or 60
Primary rated current	A	Max 100
Secondary rated current	A	1 or 5
Number of primary	-	1
Number of secondary	-	1 or 2
Weight (approximately)	Kg	1.5



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WINDOW TYPE LOW VOLTAGE CURRENT TRANSFORMER

CTIW 3 3-CR

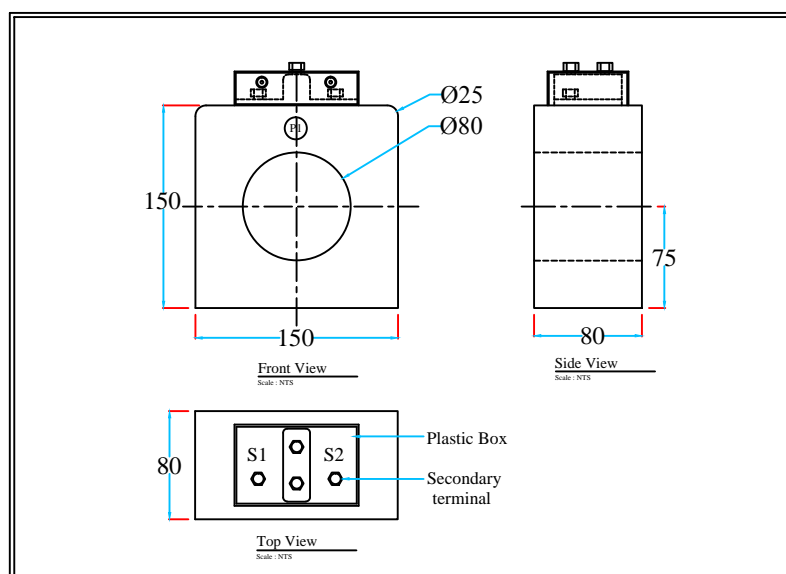
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor low voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : - Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	CTIW 3 3-CR	
Standard		IEC 61869-1 & 2 and SPLN D3.014-1:2009
Operating voltage (Max)	kV	0.72
Rated power frequency withstand test (1 Minute)	kV	3
Rated frequency	Hz	50 or 60
Primary rated current	A	Up to 600
Secondary rated current	A	1, 1.5,5
Number of primary	-	1
Number of secondary	-	1 or 2
Weight (approximately)	Kg	3.5



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WINDOW TYPE LOW VOLTAGE CURRENT TRANSFORMER

CTIOW 3 1-CR

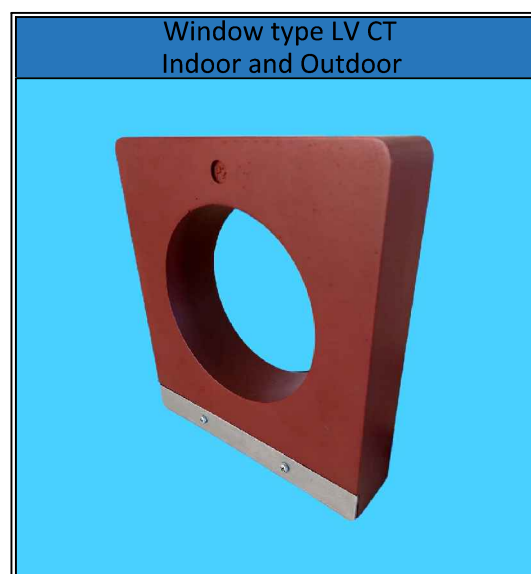
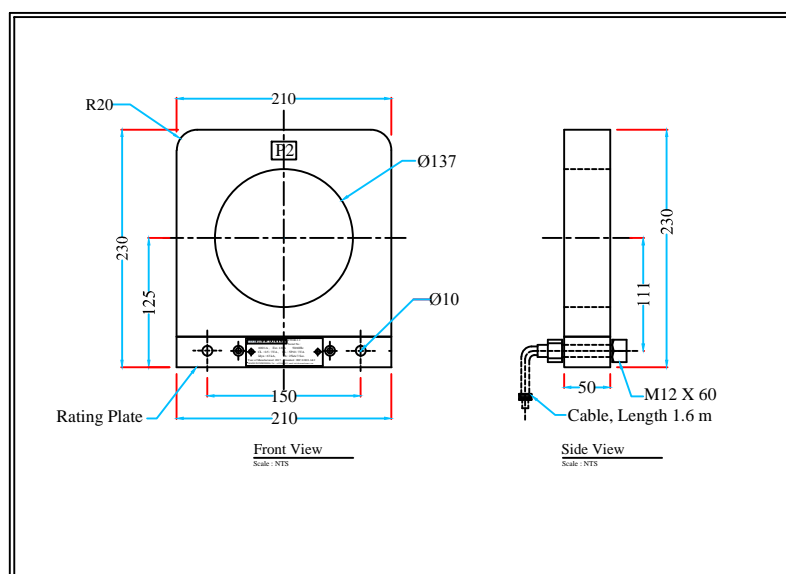
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor/outdoor low voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : - Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor / outdoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor/outdoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor/outdoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	CTIOW 3 1-CR	
Standard		IEC 61869-1 & 2 and SPLN D3.014-1:2009
Operating voltage (Max)	kV	0.72
Rated power frequency withstand test (1 Minute)	kV	3
Rated frequency	Hz	50 or 60
Primary rated current	A	Un to 1000
Secondary rated current	A	1, 1.5,5
Number of primary	-	1
Number of secondary	-	1
Weight (approximately)	Kg	4.5



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WINDOW TYPE LOW VOLTAGE CURRENT TRANSFORMER

CTIOW 3 2-CR

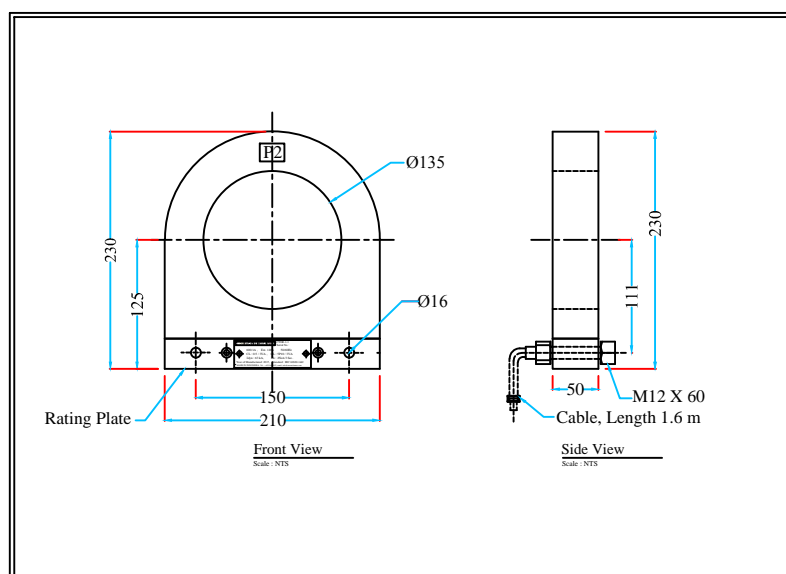
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor/outdoor low voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : - Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor / outdoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor/outdoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor/outdoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	CTIOW 3 2-CR	
Standard		IEC 61869-1 & 2 and SPLN D3.014-1:2009
Operating voltage (Max)	kV	0.72
Rated power frequency withstand test (1 Minute)	kV	3
Rated frequency	Hz	50 or 60
Primary rated current	A	Un to 1000
Secondary rated current	A	1, 1.5,5
Number of primary	-	1
Number of secondary	-	1
Weight (approximately)	Kg	4



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RING TYPE LOW VOLTAGE CURRENT TRANSFORMER

CTIW 3 5-CR

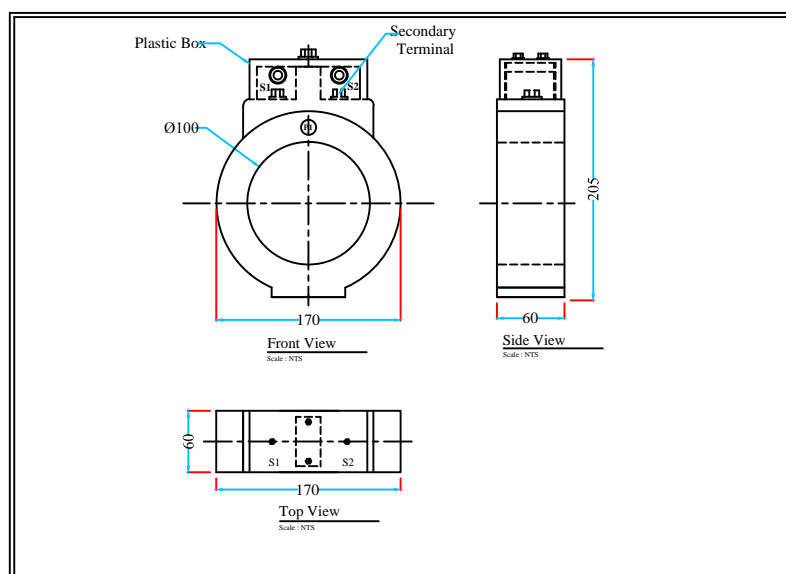
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor low voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : - Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	CTIW 3 5-CR	
Standard		IEC 61869-1 & 2 and SPLN D3.014-1:2009
Operating voltage (Max)	kV	0.72
Rated power frequency withstand test (1 Minute)	kV	3
Rated frequency	Hz	50 or 60
Primary rated current	A	200....2000
Secondary rated current	A	1, 1.5,5
Number of primary	-	1
Number of secondary	-	1
Weight (approximately)	Kg	5



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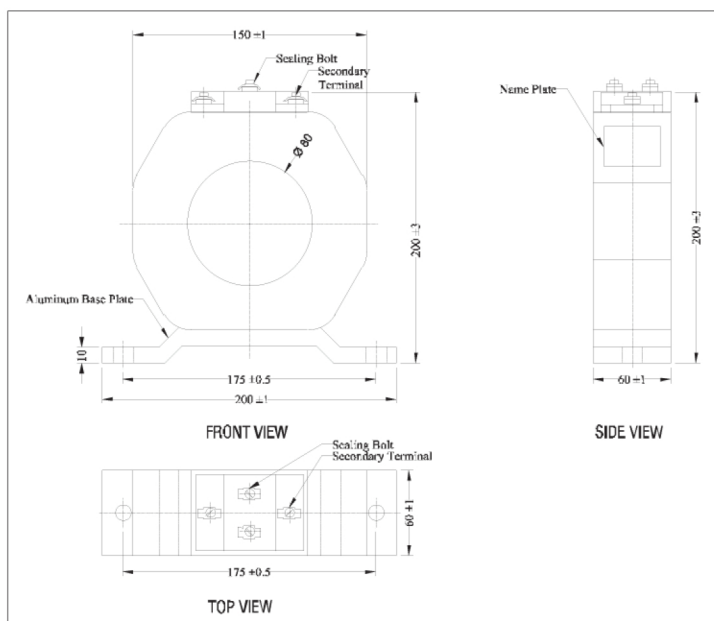
TS combines superior design and advanced testing with HCEP resin and APG process technology, to produce reliable Outdoor Medium Voltage instrument Transformers that meet IEEE C57.13-1993 and CSA CAN3-C13 insulation level standards, and IEEE C12.11 dimension standards.

Features

General	Electrical	Mechanical
Insulation: Hydrophobic Cycloaliphatic Epoxy (HCEP) Baseplate: Marine Grade aluminum Nameplate: Anodized aluminum Mounting: Horizontal, vertical, & inverted mounting options.	<ul style="list-style-type: none"> - Excellent dielectric properties- stable in outdoor humid conditions - Enhanced thermal cycle resistance - High resistance to erosion from ultra violet (UV) radiation - High tracking and arc resistance - Corona and discharge free operation - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability ideal for outdoor applications - Excellent water repellent characteristics - Compact design - Low Maintenance Application Designed for outdoor service; suitable for operating meters, instruments, relays and control devices.

Technical Data

Type	CTIOW 3 HX-CR	
Standard	IEC, ANSI BS & AS	
Operating Voltage (max)	kV	0.72
Rated power frequency withstand voltage (1 minutes)	kV	3
Rated frequency	Hz	50 or 60
Primary rated current	A	50.....5000
Secondary rated current	A	1,1.5.....5
Number of primary	-	1
Number of Secondary	-	1
Weight (approx)	kg	3



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WINDOW TYPE LOW VOLTAGE CURRENT TRANSFORMER

CTIOW 3 4-CR

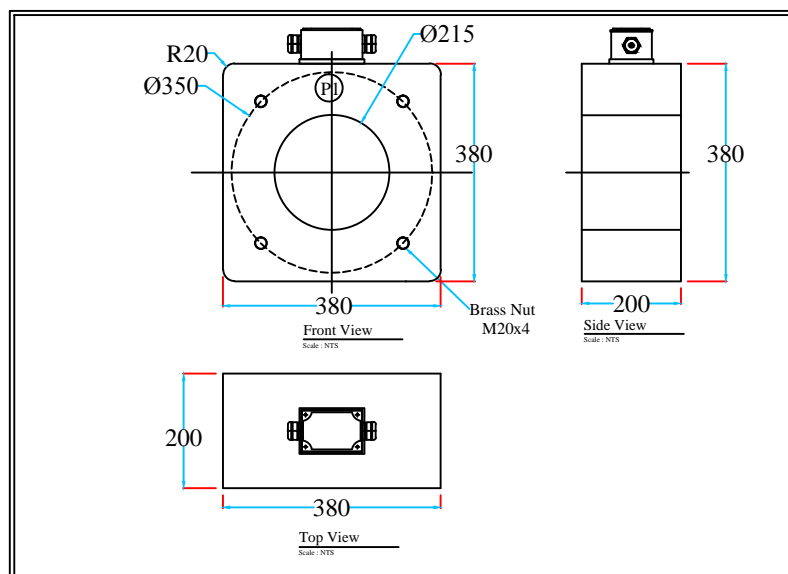
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor/outdoor low voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : - Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor/ Outdoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor / Outdoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor/outdoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	CTIOW 3 4-CR	
Standard		IEC 61869-1 & 2and SPLN D3.014-1:2009
Operating voltage (Max)	kV	0.72
Rated power frequency withstand test (1 Minute)	kV	3
Rated frequency	Hz	50 or 60
Primary rated current	A	50.....5000
Secondary rated current	A	1, 1.5,5
Number of primary	-	1
Number of Secondary	-	1 or 2
Weight (approximately)	Kg	80



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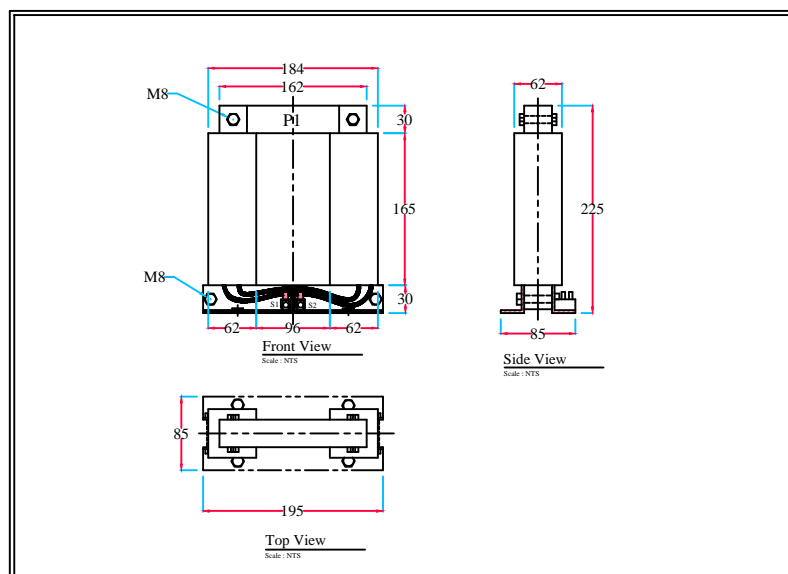
INDOOR LOW VOLTAGE CURRENT TRANSFORMER

CTIW 1 S

TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor low voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Technical Data

Type	CTIW 1 S	
Standard		IEC 61869-1 & 2 and SPLN D3.014-1:2009
Operating voltage (Max)	kV	0.72
Rated power frequency withstand test (1 Minute)	kV	3
Rated frequency	Hz	50 or 60
Primary rated current	A	Up to 2500
Secondary rated current	A	1, 1.5,5
Number of primary	-	1
Number of secondary	-	1 or 2
Weight (approximately)	Kg	9



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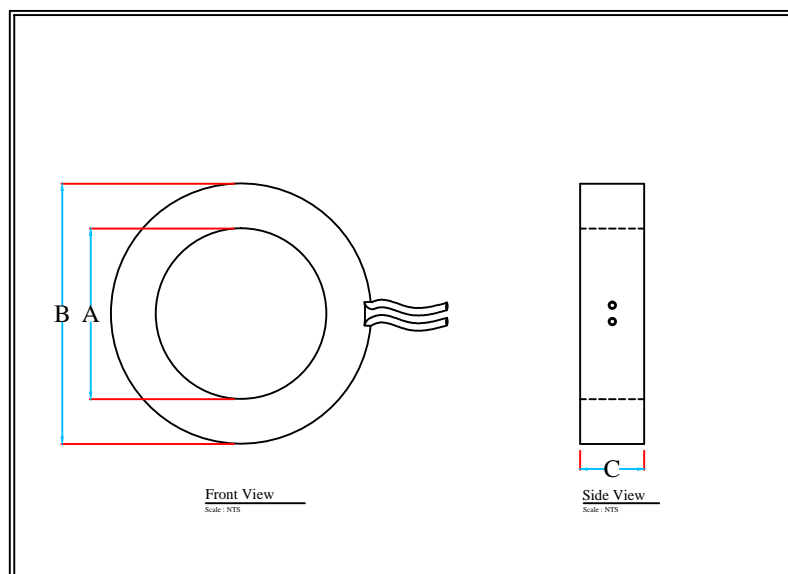
INDOOR LOW VOLTAGE CURRENT TRANSFORMER

CTIW 3 1-PC

TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor low voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Technical Data

Type	CTIW 3 1-PC	
Standard		IEC - ANI - BSI and others
Operating voltage (Max)	kV	0.72
Rated power frequency withstand test (1 Minute)	kV	3
Impulse test voltage (1.2/50Us)	kV	-
Rated frequency	Hz	50 or 60
Primary rated current	A	20 - 5000
Maximum rated continuous thermal current	xln	1.2
Secondary rated current	A	1 or 5
Rated short time thermal current -Ith. 1 Sec.	kA	60 kA
Rated dynamic current (1dyn=2.5xIth).	kA	100kA
Short time load (mechanical)	N	5000
Weight (approximately)	Kg	-



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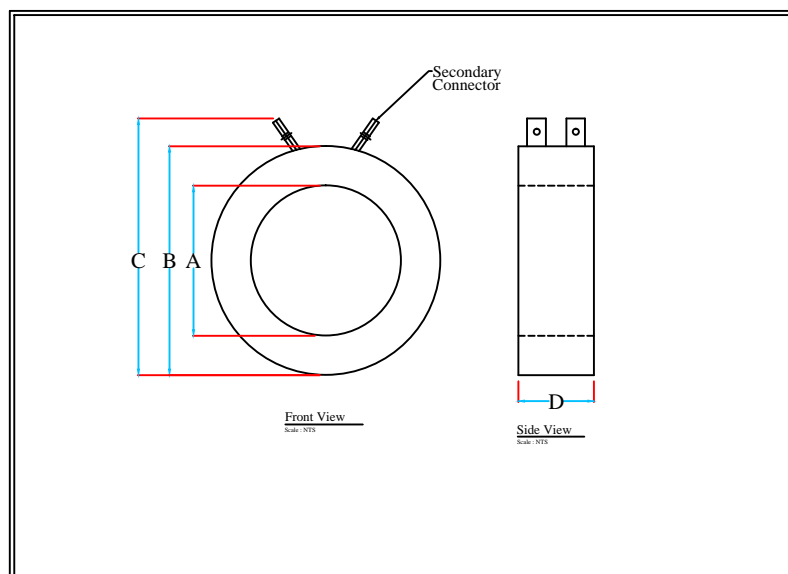
INDOOR LOW VOLTAGE CURRENT TRANSFORMER

CTIW 3 DS1-RC

TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor low voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Technical Data

Type	CTIW 3 DS1-RC	
Standard		IEC - ANSI - BSI and others
Operating voltage (Max)	kV	0.72
Rated power frequency withstand test (1 Minute)	kV	3
Impulse test voltage (1.2/50Us)	kV	-
Rated frequency	Hz	50 or 60
Primary rated current	A	20 - 5000
Maximum rated continuous thermal current	xIn	1.2
Secondary rated current	A	1 or 5
Rated short time thermal current -Ith. 1 Sec.	kA	60 kA
Rated dynamic current (1dyn=2.5xIth).	kA	100kA
Short time load (mechanical)	N	5000
Weight (approximately)	Kg	-



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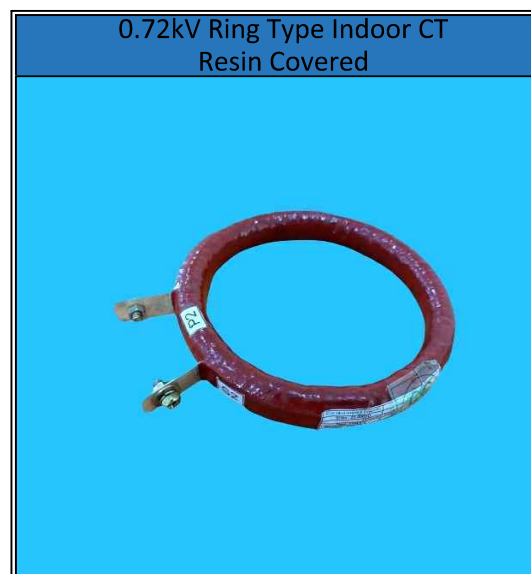
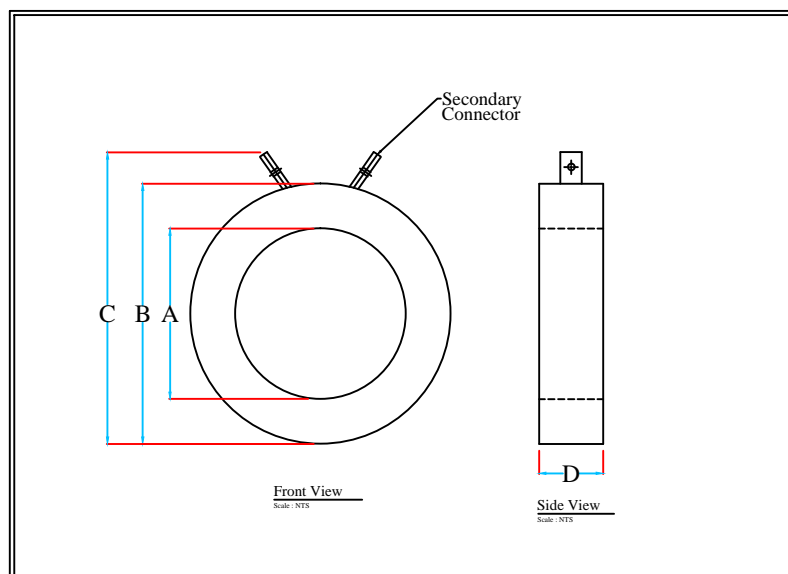
INDOOR LOW VOLTAGE CURRENT TRANSFORMER

CTIW 3 SS1 -RC

TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor low voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Technical Data

Type		CTIW 3 SS1 -RC
Standard		IEC - ANSI - BSI and others
Operating voltage (Max)	kV	0.72
Rated power frequency withstand test (1 Minute)	kV	3
Impulse test voltage (1.2/50Us)	kV	-
Rated frequency	Hz	50 or 60
Primary rated current	A	20 - 5000
Maximum rated continuous thermal current	xln	1.2
Secondary rated current	A	1 or 5
Rated short time thermal current -Ith. 1 Sec.	kA	60 kA
Rated dynamic current (1dyn=2.5xIth).	kA	100kA
Short time load (mechanical)	N	5000
Weight (approximately)	Kg	-



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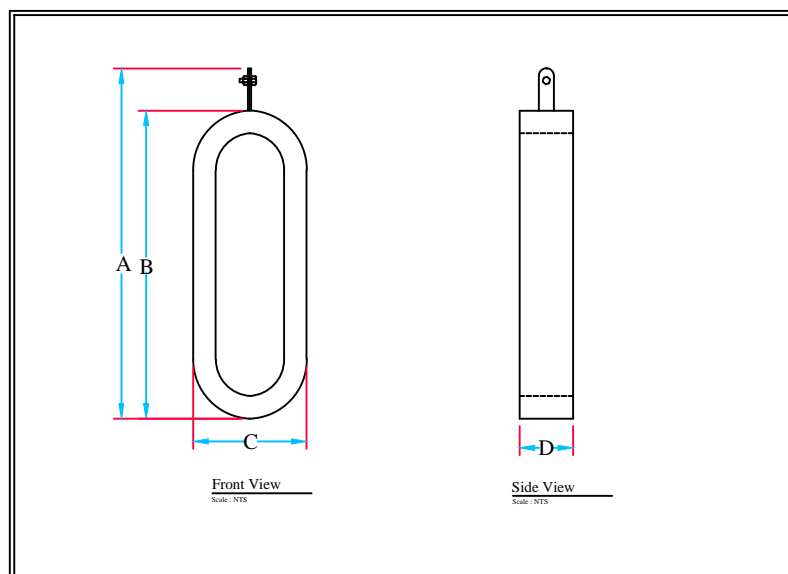
INDOOR LOW VOLTAGE CURRENT TRANSFORMER

CTIW 3 SS2-RC

TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor low voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Technical Data

Type	CTIW 3 SS2-RC	
Standard		IEC - ANSI - BSI and others
Operating voltage (Max)	kV	0.72
Rated power frequency withstand test (1 Minute)	kV	3
Impulse test voltage (1.2/50Us)	kV	-
Rated frequency	Hz	50 or 60
Primary rated current	A	20 - 5000
Maximum rated continuous thermal current	xIn	1.2
Secondary rated current	A	1 or 5
Rated short time thermal current -Ith. 1 Sec.	kA	60 kA
Rated dynamic current (1dyn=2.5xIth).	kA	100kA
Short time load (mechanical)	N	5000
Weight (approximately)	Kg	-



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INDOOR MEDIUM VOLTAGE CURRENT TRANSFORMER

CTI 7.2 C-CR

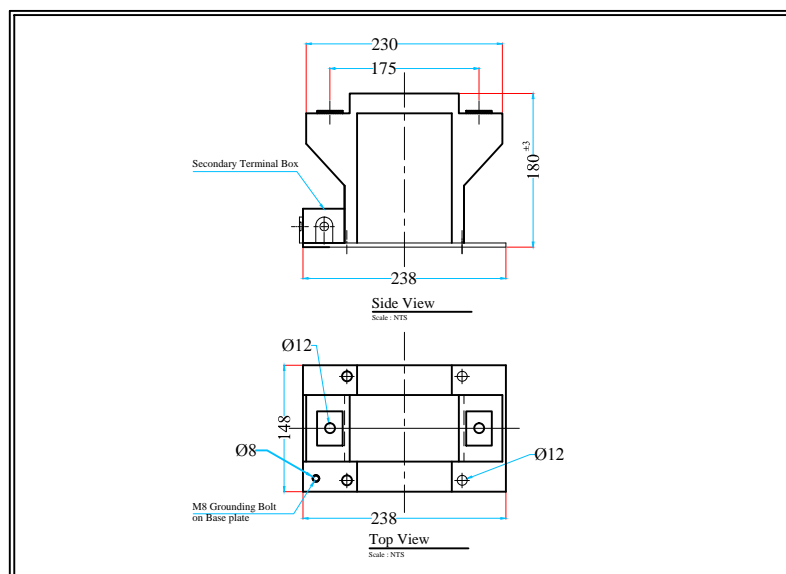
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Conduit box : Polypropylene, 16 mm threaded hubs. Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	CTI 7.2 C-CR	
Standard		IEC 61869-1 & 2
Operating voltage (Max)	kV	7.2
Rated power frequency withstand test (1 Minute)	kV	20
Impulse test voltage (1.2/50Us)	kV	60
Rated frequency	Hz	50 or 60
Primary rated current	A	10...800
Maximum rated continuous thermal current	xIn	1.2
Secondary rated current	A	1 or 5
Rated short time thermal current -Ith. 1 Sec.	kA	Max 16kA
Rated dynamic current (1dyn=2.5xIth).	kA	Max 40kA
Short time load (mechanical)	N	3000
Weight (approximately)	Kg	15



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INDOOR MEDIUM VOLTAGE CURRENT TRANSFORMER

CTI 24 C1-CR

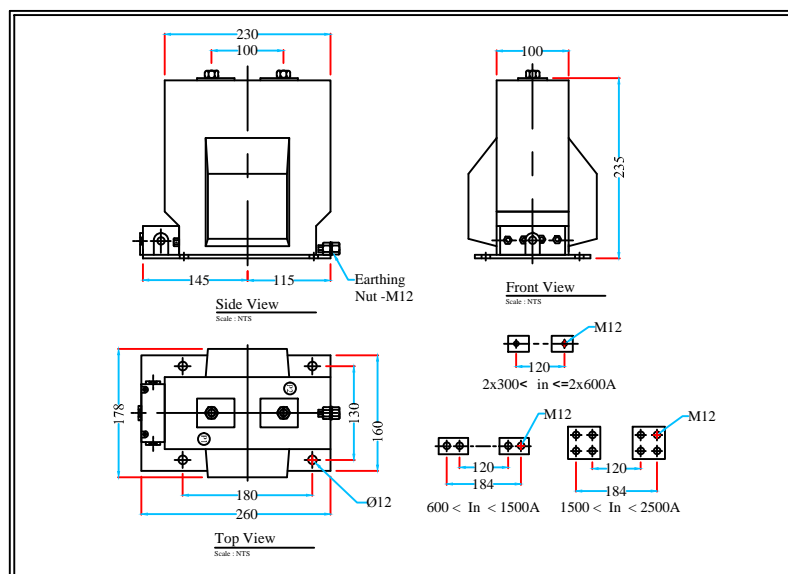
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Conduit box : Polypropylene, 16 mm threaded hubs. Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	CTI 24 C1-CR	
Standard		IEC 61869-1 & 2 and SPLN D3.014-1:2009
Operating voltage (Max)	kV	24
Rated power frequency withstand test (1 Minute)	kV	50
Impulse test voltage (1.2/50Us)	kV	125
Rated frequency	Hz	50 or 60
Primary rated current	A	10...800
Maximum rated continuous thermal current	xIn	1.2
Secondary rated current	A	1 or 5
Rated short time thermal current -Ith. 1 Sec.	kA	Max 40
Rated dynamic current (1dyn=2.5xIth).	kA	Max 100
Short time load (mechanical)	N	5000
Weight (approximately)	Kg	27



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INDOOR MEDIUM VOLTAGE CURRENT TRANSFORMER

CTI 24 C2-CR

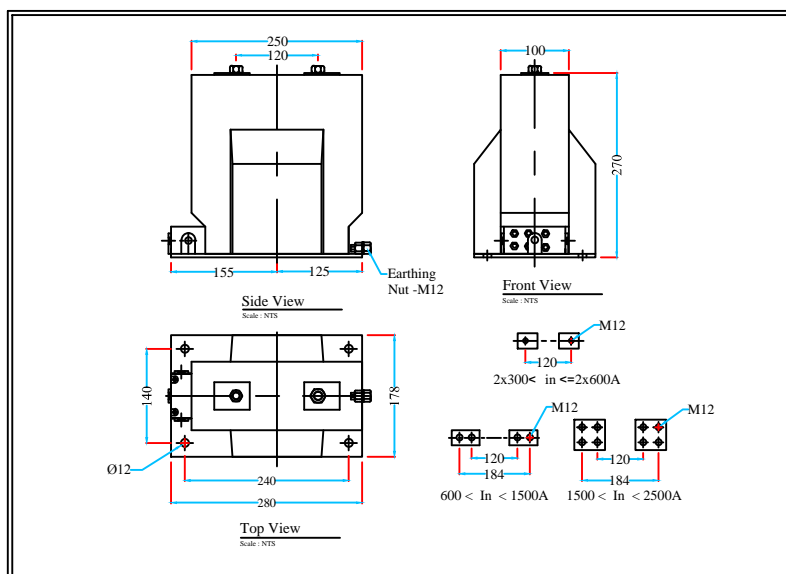
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Conduit box : Polypropylene, 16 mm threaded hubs. Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	CTI 24 C2-CR	
Standard		IEC 61869-1 & 2 and SPLN D3.014-1:2009
Operating voltage (Max)	kV	24
Rated power frequency withstand test (1 Minute)	kV	50
Impulse test voltage (1.2/50Us)	kV	125
Rated frequency	Hz	50 or 60
Primary rated current	A	10...1500
Maximum rated continuous thermal current	xIn	1.2
Secondary rated current	A	1 or 5
Rated short time thermal current -Ith. 1 Sec.	kA	Max 40
Rated dynamic current (1dyn=2.5xIth).	kA	Max 100
Short time load (mechanical)	N	5000
Weight (approximately)	Kg	29



PT.TS Transformer Indonesia Reserves the right to change specification and dimension of the goods. please ask for updated information. customer designed products are also available.



INDOOR MEDIUM VOLTAGE CURRENT TRANSFORMER

CTI 12 B-CR

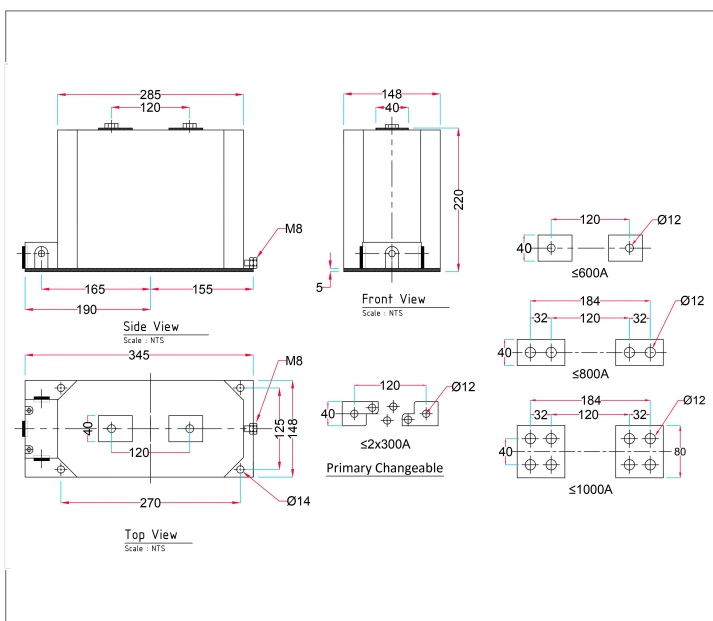
TS combines superior design and advanced testing with HCEP resin and APG process technology, to produce reliable indoor Medium Voltage instrument Transformers that meet IEEE C57.13-1993 and CSA CAN3-C13 insulation level standards, and IEEE C12.11 dimension standards.

Features

General	Electrical	Mechanical
Insulation: Hydrophobic Cycloaliphatic Epoxy (HCEP) Baseplate: Cadmium coated metal Conduit box: Polypropylene, 16 mm threaded hubs Nameplate: Anodized aluminum / Special printing paper Mounting: Horizontal, vertical, & inverted mounting options.	<ul style="list-style-type: none"> - Excellent dielectric properties- stable in indoor humid conditions - Enhanced thermal cycle resistance - High resistance to erosion from ultra violet (UV) radiation - High tracking and arc resistance - Corona and discharge free operation - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability ideal for indoor applications - Compact design - Low Maintenance <p>Application Designed for indoor service; suitable for operating meters, instruments, relays and control devices.</p>

Technical Data

Type	CTI 12 B-CR	
Standard	IEC, ANSI BS & AS	
Operating Voltage (max)	kV	12
Rated power frequency withstand voltage (1 minutes)	kV	28
Impulse test voltage (1.2/50us)	kV	75
Rated frequency	Hz	50 or 60
Primary rated current	A	10 - 2500
Maximum rated continuous thermal current	xIn	1.2
Secondary rated current	A	1 or 5
Rated short time thermal current-1th. 1sec	kA	75
Rated dynamic current (1dyn=2.5x1th)	kA	max 100
Short time load (Mechanical)	N	5000
Weight (approx)	kg	22 - 28



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INDOOR TYPE MEDIUM VOLTAGE CURRENT TRANSFORMER

CTI 12 BR-CR

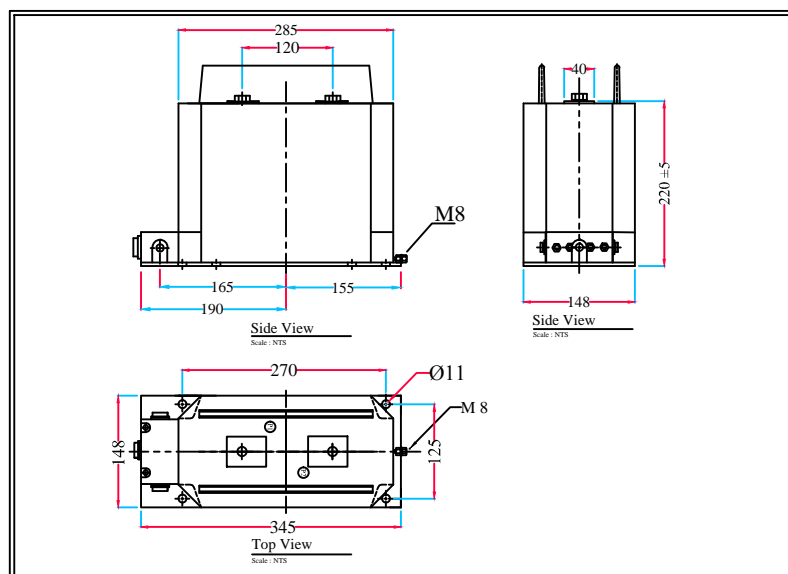
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Conduit box : Polypropylene, 16 mm threaded hubs. Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violet (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	CTI 12 BR-CR	
Standard		IEC, ANCI BS & AS
Operating voltage (Max)	kV	12
Rated power frequency withstand test (1 Minute)	kV	28
Impulse test voltage (1.2/50Us)	kV	75
Rated frequency	Hz	50 or 60
Primary rated current	A	10-2500
Maximum rated continuous thermal current	xIn	1.2
Secondary rated current	A	1 or 5
Rated short time thermal current -Ith. 1 Sec.	kA	75
Rated dynamic current (1dyn=2.5xIth).	kA	Max 100
Short time load (mechanical)	N	5000
Weight (approximately)	Kg	22-28



PT.TS Transformer Indonesia Reserves the right to change specification and dimension of the goods. please ask for updated information. customer designed products are also available.



INDOOR MEDIUM VOLTAGE CURRENT TRANSFORMER

CTIW 17.5 SQ-CR

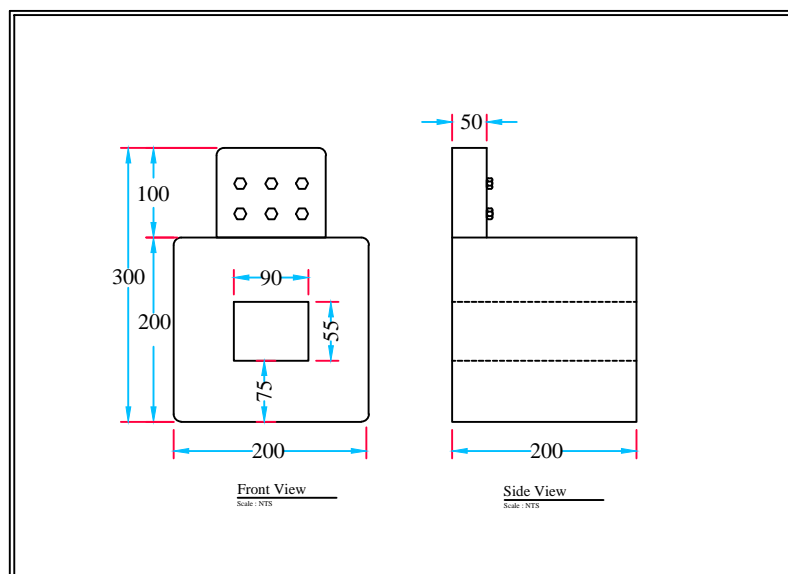
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : - Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	CTIW 17.5 SQ-CR	
Standard		IEC 61869-1 & 2
Operating voltage (Max)	kV	-
Rated power frequency withstand test (1 Minute)	kV	3
Rated frequency	Hz	50 or 60
Primary rated current	A	Up to 2500
Secondary rated current	A	1, 1.5,5
Number of primary	-	1
Number of secondary	-	1, 2 or 3
Weight (approximately)	Kg	15



PT.TS Transformer Indonesia Reserves the right to change specification and dimension of the goods. please ask for updated information. customer designed products are also available.



INDOOR MEDIUM VOLTAGE CURRENT TRANSFORMER

CTIW 17.5 SC-CR

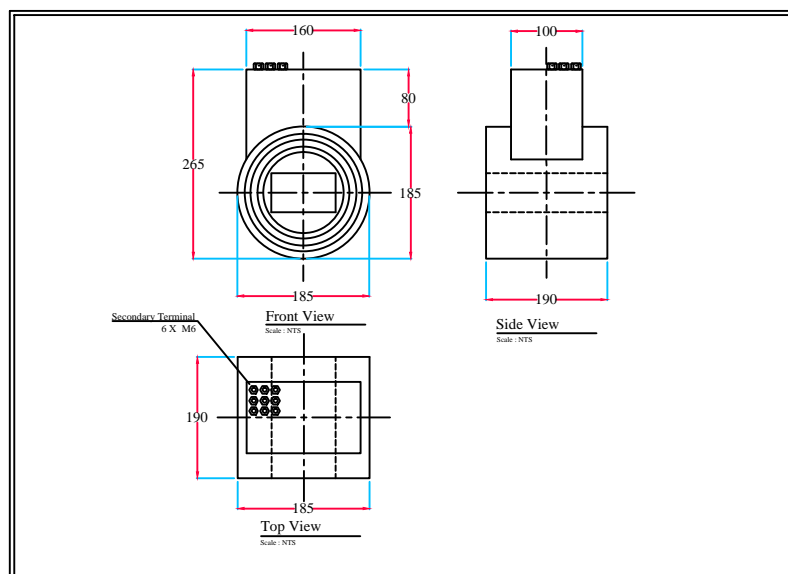
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : - Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	- Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life	- HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type		CTIW 17.5 SC-CR
Standard		IEC 61869-1 & 2
Operating voltage (Max)	kV	12 - 17.5
Rated power frequency withstand test (1 Minute)	kV	38
Rated frequency	Hz	50 or 60
Primary rated current	A	Up to 2500
Secondary rated current	A	1, 1.5,5
Number of primary	-	1
Number of secondary	-	1, 2 or 3
Weight (approximately)	Kg	12



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INDOOR MEDIUM VOLTAGE CURRENT TRANSFORMER

CTIW 17.5 BC-CR

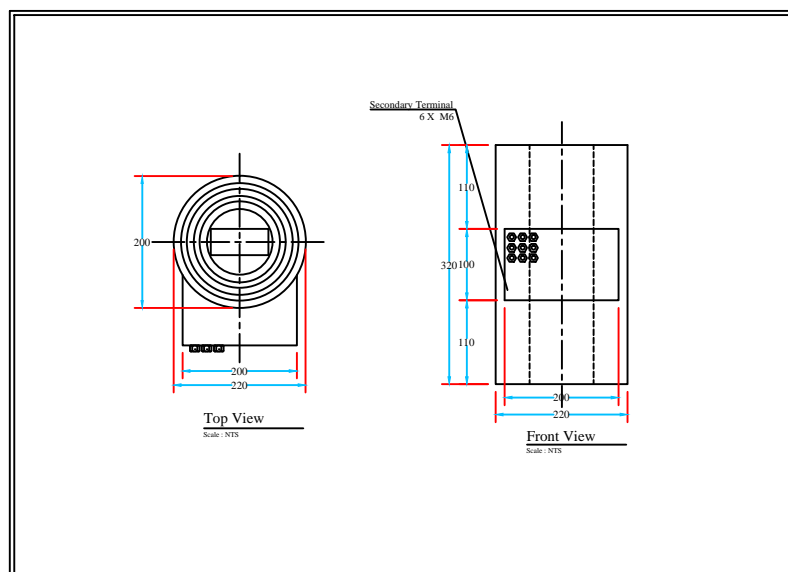
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : - Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	CTIW 17.5 BC-CR	
Standard		IEC 61869-1 & 2
Operating voltage (Max)	kV	12 - 17.5
Rated power frequency withstand test (1 Minute)	kV	38
Rated frequency	Hz	50 or 60
Primary rated current	A	Up to 2500
Secondary rated current	A	1, 1.5,5
Number of primary	-	1
Number of secondary	-	1, 2 or 3
Weight (approximately)	Kg	23



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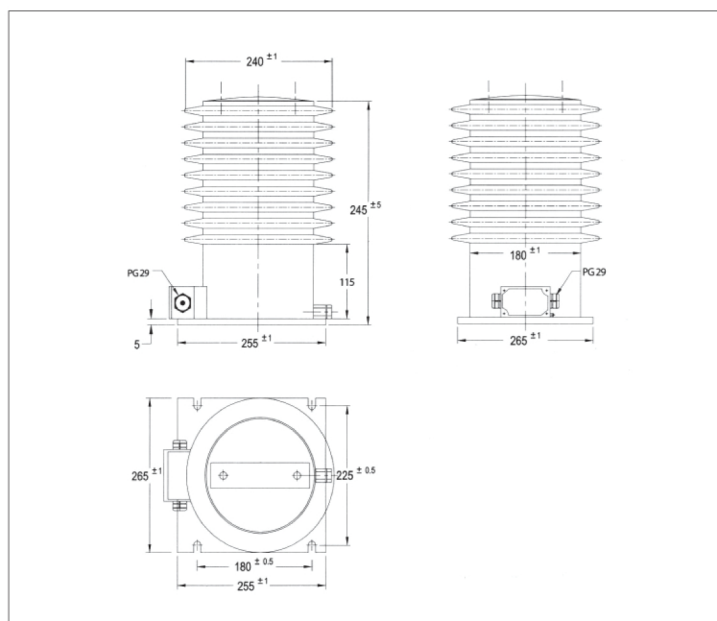
TS combines superior design and advanced testing with HCEP resin and APG process technology, to produce reliable outdoor Medium Voltage instrument Transformers that meet IEEE C57.13-1993 and CSA CAN3-C13 insulation level standards, and IEEE C12.11 dimension standards.

Features

General	Electrical	Mechanical
Insulation: Hydrophobic Cycloaliphatic Epoxy (HCEP) Baseplate: Marine grade aluminum / Galvanized metal Conduit box: Cast Aluminum, removable, 25 mm threaded hubs Nameplate: Anodized aluminum Mounting: Horizontal, vertical, & inverted mounting options.	<ul style="list-style-type: none"> - Excellent dielectric properties- stable in outdoor humid conditions - Enhanced thermal cycle resistance - High resistance to erosion from ultra violet (UV) radiation - High tracking and arc resistance - Corona and Discharge free operation - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weatherability ideal for outdoor applications - Excellent water repellent characteristics - Compact design - Low Maintenance Application Designed for outdoor service; suitable for operating meters, instruments, relays and control devices.

Technical Data

Type	CTO 24 SS-CR	
Standard	IEC, ANSI BS & AS	
Operating Voltage (max)	kV	12 17.5
Rated power frequency withstand voltage (1 minutes)	kV	28 38
Impulse test voltage (1.2/50us)	kV	75 95
Rated frequency	Hz	50 or 60
Primary rated current	A	≤ 600
Maximum rated continuous thermal current	xIn	1.2
Secondary rated current	A	1 or 5
Rated short time thermal current-I _{th} . 1sec	kA	40
Rated dynamic current (1dyn=2.5xI _{th})	kA	100
Creepage distance (min)	mm	640
Short time load (Mechanical)	N	2000
Weight (approx)	kg	22



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OUTDOOR MEDIUM VOLTAGE CURRENT TRANSFORMER

CTO 24-1

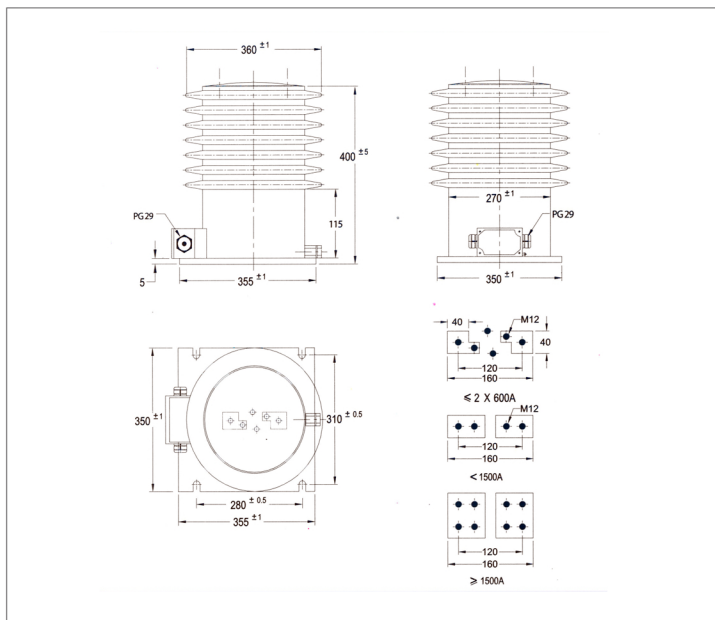
TS combines superior design and advanced testing with HCEP resin and APG process technology, to produce reliable Outdoor Medium Voltage instrument Transformers that meet IEEE C57.13-1993 and CSA CAN3-C13 insulation level standards, and IEEE C12.11 dimension standards.

Features

General	Electrical	Mechanical
Insulation: Hydrophobic Cycloaliphatic Epoxy (HCEP) Baseplate: Marine grade aluminum / Galvanized metal Conduit box: Cast Aluminum , removable, 25 mm threaded hubs Nameplate: Anodized aluminum Mounting: Horizontal, vertical, & inverted mounting options.	<ul style="list-style-type: none"> - Excellent dielectric properties- stable in outdoor humid conditions - Enhanced thermal cycle resistance - High resistance to erosion from ultra violet (UV) radiation - High tracking and arc resistance - Corona and Discharge free operation - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weatherability ideal for outdoor applications - Excellent water repellent characteristics - Compact design - Low Maintenance <p>Application Designed for outdoor service; suitable for operating meters, instruments, relays and control devices.</p>

Technical Data

Type	CTO 24-1	
Standard	IEC, ANSI BS & AS	
Operating Voltage (max)	kV	17.5 24
Rated power frequency withstand voltage (1 minutes)	kV	38 50
Impulse test voltage (1.2/50us)	kV	95 125
Rated frequency	Hz	50 or 60
Primary rated current	A	≤ 600
Maximum rated continuous thermal current	xIn	1.2
Secondary rated current	A	1 or 5
Rated short time thermal current-I _{th} . 1sec	kA	40
Rated dynamic current (1dyn=2.5xI _{th})	kA	100
Creepage distance (min)	mm	835
Short time load (Mechanical)	N	2000
Weight (approx)	kg	55



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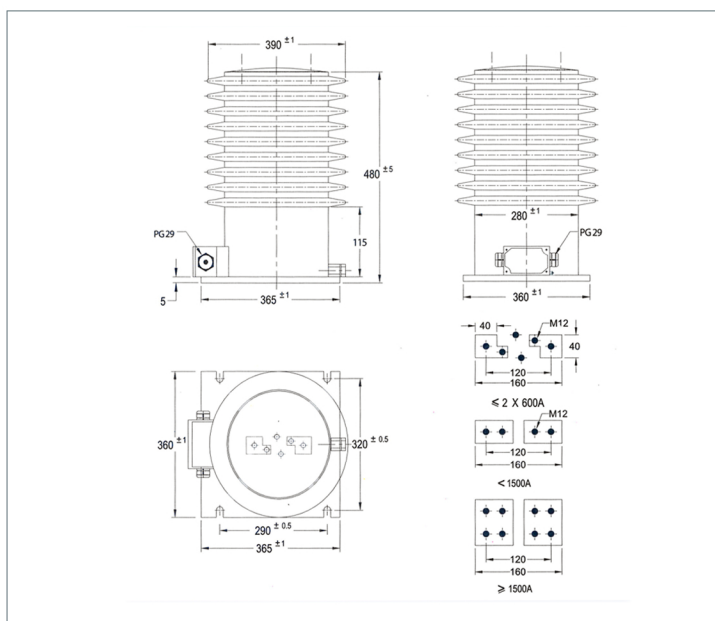
TS combines superior design and advanced testing with HCEP resin and APG process technology, to produce reliable outdoor Medium Voltage instrument Transformers that meet IEEE C57.13-1993 and CSA CAN3-C13 insulation level standards, and IEEE C12.11 dimension standards.

Features

General	Electrical	Mechanical
Insulation: Hydrophobic Cycloaliphatic Epoxy (HCEP) Baseplate: Marine grade aluminum / Galvanized metal Conduit box: Cast Aluminum , removable, 25 mm threaded hubs Nameplate: Anodized aluminum Mounting: Horizontal, vertical, & inverted mounting options.	<ul style="list-style-type: none"> - Excellent dielectric properties- stable in outdoor humid conditions - Enhanced thermal cycle resistance - High resistance to erosion from ultra violet (UV) radiation - High tracking and arc resistance - Corona and Discharge free operation - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weatherability ideal for outdoor applications - Excellent water repellent characteristics - Compact design - Low Maintenance <p>Application Designed for outdoor service; suitable for operating meters, instruments, relays and control devices.</p>

Technical Data

Type	CTO 36 DS-CR	
Standard	IEC, ANSI BS & AS	
Operating Voltage (max)	kV	36
Rated power frequency withstand voltage (1 minutes)	kV	70
Impulse test voltage (1.2/50us)	kV	170~200
Rated frequency	Hz	50 or 60
Primary rated current	A	≤ 600
Maximum rated continuous thermal current	xIn	1.2
Secondary rated current	A	1 or 5
Rated short time thermal current-1th. 1sec	kA	40
Rated dynamic current (1dyn=2.5x1th)	kA	100
Creepage distance (min)	mm	1150
Short time load (Mechanical)	N	2000
Weight (approx)	kg	75



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POTENTIAL TRANSFORMERS ORDER FORM

INQUIRY/ORDER FORM FOR VOLTAGE TRANSFORMER

Form : Date :

Name : Dept. :

Customer :

Ref. No. : Quantity

TYPE

Standard (IEC, ANSI, BS etc) Frequency Hz

1. Rated insulation level kV

Power frequency withstand voltage/BIL

2. Voltage rating

Primary Voltage

Secondary Voltage (1)

Secondary Voltage (2) 1 sec 2 sec

3. Number of secondaries

4. Over voltage factor (continuous)

5. Rated system voltage kV

6. highest system voltage kV

7. Connection of primary winding

Line to line (Phase to phase)

Line to earth (Phase to earth)

8. Service conditions

Indoor

Outdoor

Rating plate(s) for device

Routine test

(All in English)

1st SECONDARY

Measurement Protection

Rated secondary voltage V V

Rated output kV kV

Accuracy class

2nd SECONDARY

Measurement Protection

Rated secondary voltage V V

Rated output kV kV

Accuracy class

SPECIAL REQUIREMENTS/NOTES.....

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PT. TS Transformer Indonesia reserves the right to change the specification and the dimension of the goods.
Please ask for updated information. Customer designed products are also available.



INDOOR LOW VOLTAGE POTENTIAL TRANSFORMER

VTI 1 DS1P-PI, VTI 1 3P-PI

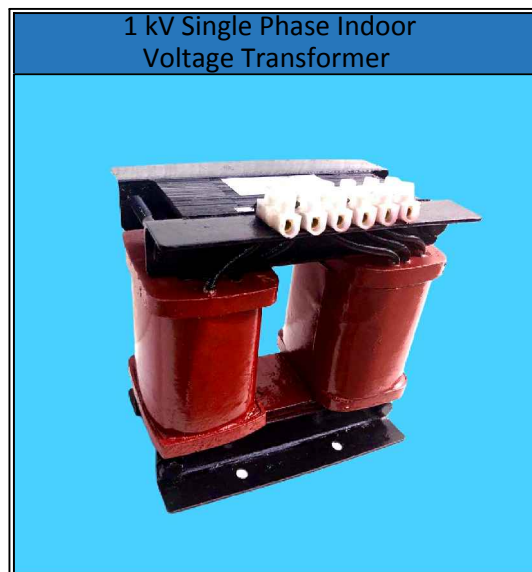
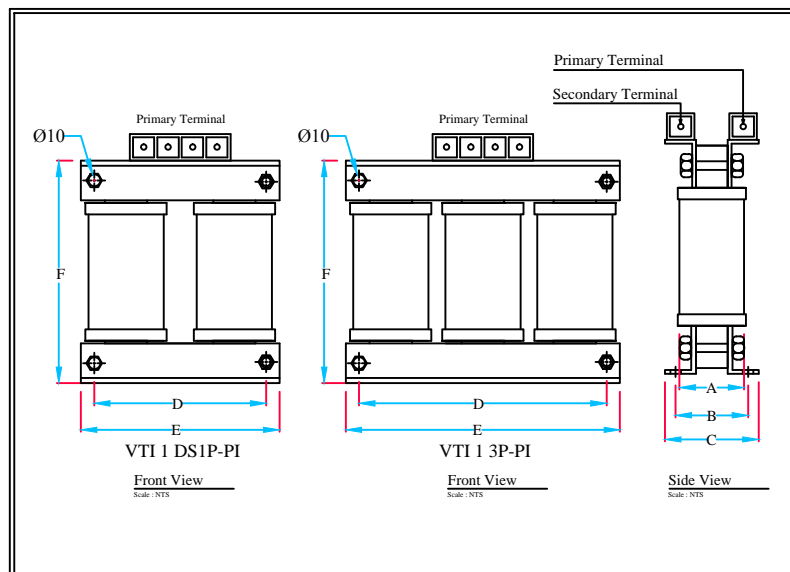
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor low voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : - Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	- Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life	- HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	VTI 1 DS1P-PI, VTI 1 3P-PI	
Operating voltage (Max)	kV	1
Rated power frequency withstand test (1 Minute)	kV	3
Impulse test voltage (1.2/50Us)	kV	-
Rated frequency	Hz	50 or 60
Primary voltage	V	Up to 1000
Secondary voltage	V	Depend of customer
Output power	kVA	Up to 5



PT.TS Transformer Indonesia Reserves the right to change specification and dimension of the goods. please ask for updated information. customer designed products are also available.



INDOOR MEDIUM VOLTAGE POTENTIAL TRANSFORMER

VTI 1 SS1P-PI

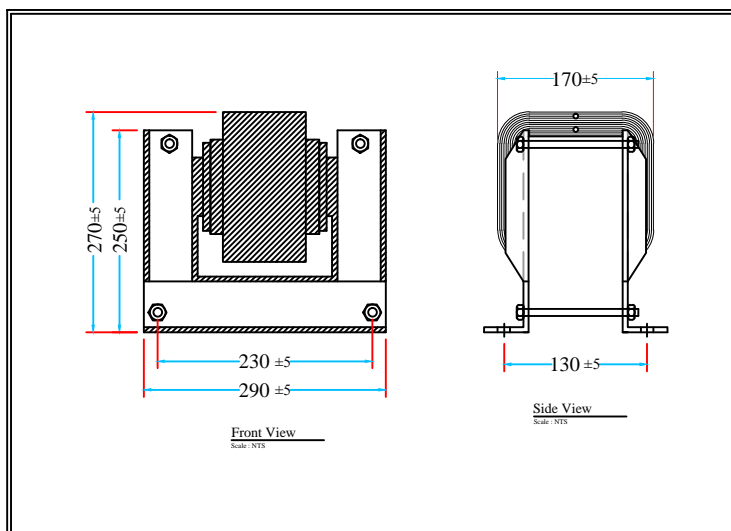
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor low voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : - Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	- Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violet (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life	- HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	VTI 1 SS1P-PI	
Standard		IEC 61869-1 & 3
Operating voltage (Max)	kV	1.2
Rated power frequency withstand test (1 Minute)	kV	6
Impulse test voltage (1.2/50Us)	kV	-
Rated frequency	Hz	50 or 60
Primary voltage	V	Up to 1000
Secondary voltage	V	Depend of customer
Output power	kVA	up to 2.5
Secondary thermal burden current 8h (earth fault winding)	A	-
Rated voltage factor	-	1.9 Un x 8 h



PT.TS Transformer Indonesia Reserves the right to change specification and dimension of the goods. please ask for updated information. customer designed products are also available.



INDOOR FUSE TYPE MEDIUM VOLTAGE POTENTIAL TRANSFORMER

VTIF 6.6 2P-CR

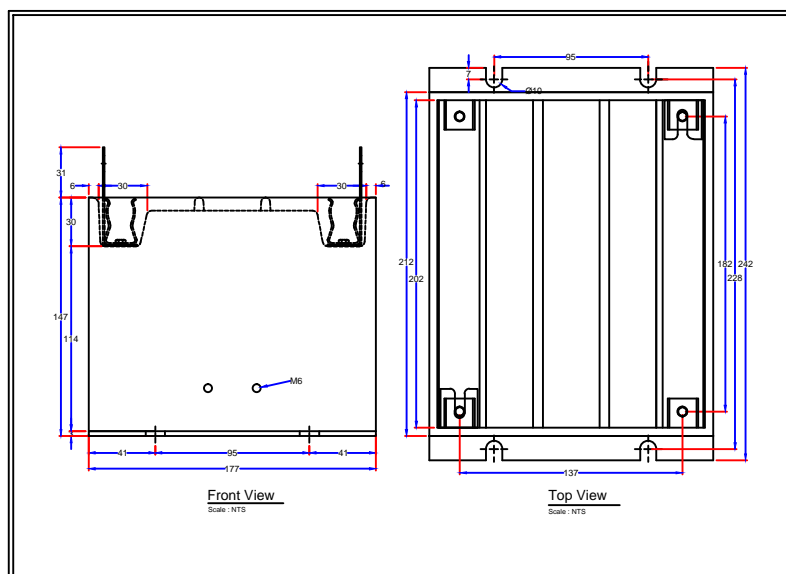
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Conduit box : Polypropylene, 16 mm threaded hubs. Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violet (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	VTIF 6.6 2P-CR	
Standard		IEC 61869-1 & 3
Operating voltage (Max)	kV	6.6
Rated power frequency withstand test (1 Minute)	kV	20
Impulse test voltage (1.2/50Us)	kV	40/60
Rated frequency	Hz	50 or 60
Primary voltage	V	6600
Secondary voltage	V	220
Residuary voltage	V	220
Secondary thermal burden current 8h (earth fault winding)	A	6
Rated voltage factor	-	1.9 x Un (30 sec. or 8 hours)
Short time load (mechanical)	N	3750
Weight (approximately)	Kg	?



PT.TS Transformer Indonesia Reserves the right to change specification and dimension of the goods. please ask for updated information. customer designed products are also available.



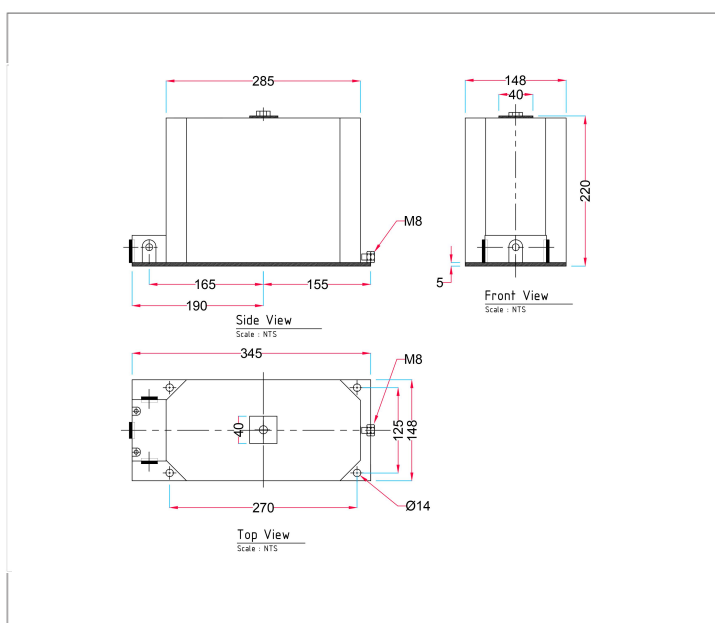
TS combines superior design and advanced testing with HCEP resin and APG process technology, to produce reliable indoor Medium Voltage instrument Transformers that meet IEEE C57.13-1993 and CSA CAN3-C13 insulation level standards, and IEEE C12.11 dimension standards.

Features

General	Electrical	Mechanical
<p>Insulation: Hydrophobic Cycloaliphatic Epoxy (HCEP)</p> <p>Baseplate: Cadmium coated metal</p> <p>Conduit box: Polypropylene, 16 mm threaded hubs</p> <p>Nameplate: Anodized aluminum / Special printing paper</p> <p>Mounting: Horizontal, vertical, & inverted mounting options.</p>	<ul style="list-style-type: none"> - Excellent dielectric properties- stable in indoor humid conditions - Enhanced thermal cycle resistance - High resistance to erosion from ultra violet (UV) radiation - High tracking and arc resistance - Corona and Discharge free operation - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weatherability ideal for indoor applications - Compact design - Low Maintenance <p>Application Designed for indoor service; suitable for operating meters, instruments, relays and control devices.</p>

Technical Data

Type	VTI 12 1PD-CR	
Standard	IEC, ANSI BS & AS	
Connection	Line to earth Connection	
Operating Voltage (max)	kV	12
Rated power frequency withstand voltage (1 minutes)	kV	28
Impulse test voltage (1.2/50us)	kV	75
Rated frequency	Hz	50 or 60
Primary voltage	v	12000/√3
Secondary Voltage	v	100/√3-110/√3
Residuary Voltage	v	100/3 - 110/3
Secondary thermal Burden Current 8h (earth fault winding)	A	4
Rated Voltage Factor	1.9 x U _n (30 sec or 8 hours)	
Short time load (Mechanical)	N	3750
Weight (approx)	kg	30



PT. TS Transformer Indonesia reserves the right to change the specification and the dimension of the goods. Please ask for updated information. Customer designed products are also available.



INDOOR FUSE TYPE MEDIUM VOLTAGE POTENTIAL TRANSFORMER

VTIF 12 1P-CR

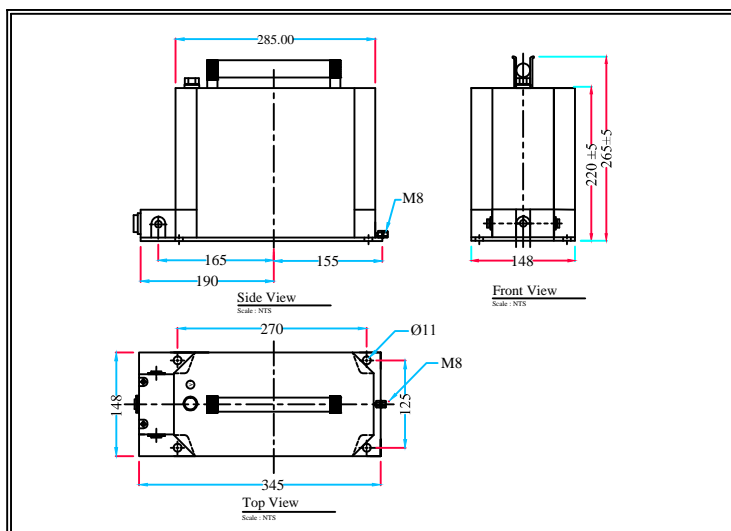
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Conduit box : Polypropylene, 16 mm threaded hubs. Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	- Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violet (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life	- HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	VTIF 12 1P-CR	
Standard		IEC 61869-1 & 3 and SPLN D3.014-2:2010
Operating voltage (Max)	kV	12
Rated power frequency withstand test (1 Minute)	kV	28
Impulse test voltage (1.2/50Us)	kV	75
Rated frequency	Hz	50 or 60
Primary voltage	V	up to 12000/√3
Secondary voltage	V	100/√3 or 110/√3
Residuary voltage	V	100 or 110/3
Secondary thermal burden current 8h (earth fault winding)	A	4
Rated voltage factor	-	1.9 x Un (30 sec. or 8 hours)
Short time load (mechanical)	N	3750
Weight (approximately)	Kg	30



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INDOOR MEDIUM VOLTAGE PHASE TO PHASE POTENTIAL TRANSFORMER

VTI 12 2P-CR

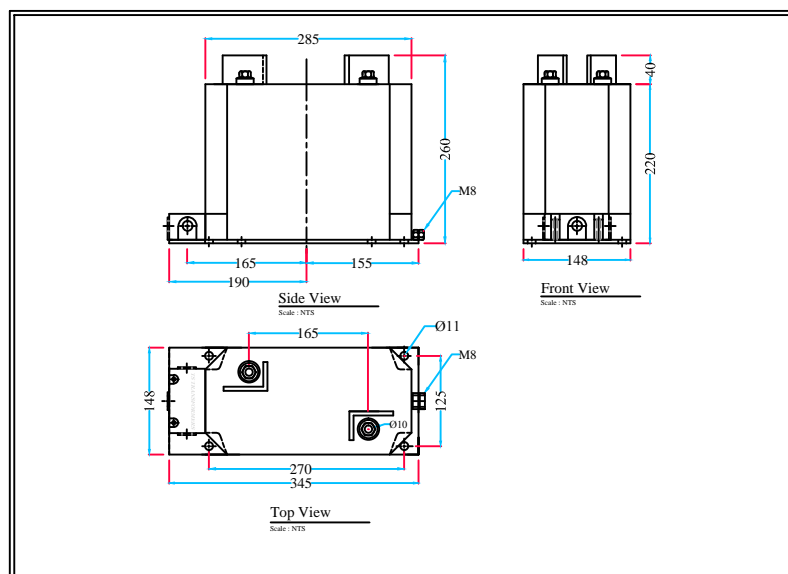
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Conduit box : Polypropylene, 16 mm threaded hubs. Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	- Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life	- HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	VTI 12 2P-CR	
Standard		IEC 61869-1 & 3 and SPLN D3.014-2:2010
Operating voltage (Max)	kV	12
Rated power frequency withstand test (1 Minute)	kV	28
Impulse test voltage (1.2/50Us)	kV	75
Rated frequency	Hz	50 or 60
Primary voltage	V	Up to 12000
Secondary voltage	V	100 or 110
Residuary voltage	V	100 or 110
Secondary thermal burden current 8h (earth fault winding)	A	4
Rated voltage factor	-	1.2 Un Continue
Short time load (mechanical)	N	3750
Weight (approximately)	Kg	32



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INDOOR FUSE TYPE MEDIUM VOLTAGE POTENTIAL TRANSFORMER

VTIF 12 2P-CR

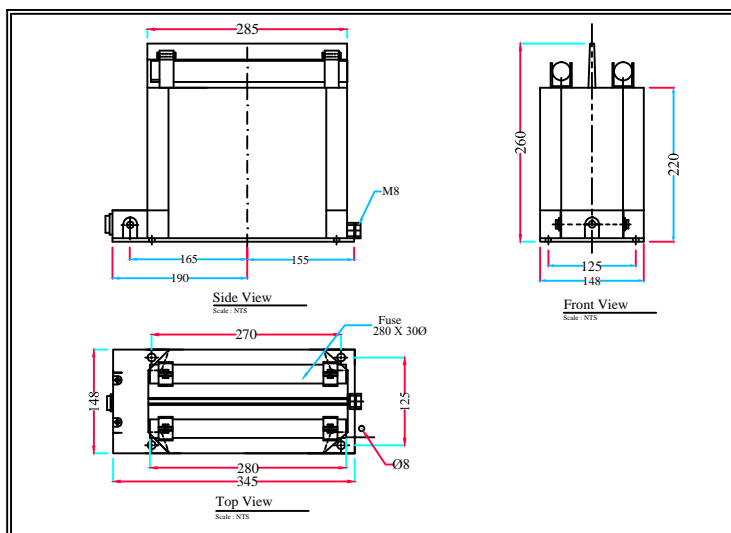
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Conduit box : Polypropylene, 16 mm threaded hubs. Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	- Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violet (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life	- HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	VTIF 12 2P-CR	
Standard		IEC 61869-1 & 3 and SPLN D3.014-2:2010
Operating voltage (Max)	kV	12
Rated power frequency withstand test (1 Minute)	kV	28
Impulse test voltage (1.2/50Us)	kV	75
Rated frequency	Hz	50 or 60
Primary voltage	V	15000, 17500, 20000
Secondary voltage	V	100 or 110
Residuary voltage	V	
Secondary thermal burden current 8h (earth fault winding)	A	4
Rated voltage factor	-	1.2 x Un (Continue)
Short time load (mechanical)	N	3750
Weight (approximately)	Kg	30



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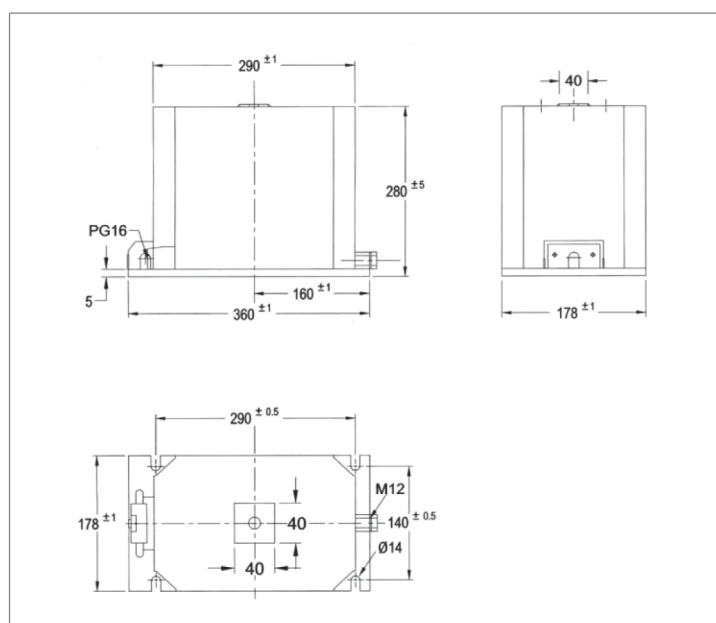
TS combines superior design and advanced testing with HCEP resin and APG process technology, to produce reliable indoor Medium Voltage instrument Transformers that meet IEEE C57.13-1993 and CSA CAN3-C13 insulation level standards, and IEEE C12.11 dimension standards.

Features

General	Electrical	Mechanical
<p>Insulation: Hydrophobic Cycloaliphatic Epoxy (HCEP)</p> <p>Baseplate: Cadmium coated metal</p> <p>Conduit box: Polypropylene, 16 mm threaded hubs</p> <p>Nameplate: Anodized aluminum / Special printing paper</p> <p>Mounting: Horizontal, vertical, & inverted mounting options.</p>	<ul style="list-style-type: none"> - Excellent dielectric properties- stable in indoor humid conditions - Enhanced thermal cycle resistance - High resistance to erosion from ultra violet (UV) radiation - High tracking and arc resistance - Corona and Discharge free operation - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weatherability ideal for indoor applications - Compact design - Low Maintenance <p>Application Designed for indoor service; suitable for operating meters, instruments, relays and control devices.</p>

Technical Data

Type	VTI 24-1	
Standard	IEC, ANSI BS & AS	
Connection	Line to earth Connection	
Operating Voltage (max)	kV	24
Rated power frequency withstand voltage (1 minutes)	kV	50
Impulse test voltage (1.2/50us)	kV	125
Rated frequency	Hz	50 or 60
Primary voltage	V	24000/√3
Secondary Voltage	V	100/√3-110/√3
Residuary Voltage	V	100/3 - 110/3
Secondary Thermal Burden Current 8h (earth fault winding)	A	6
Rated Voltage Factor	1.9 x U _n (30 sec or 8 hours)	
Short time load (Mechanical)	N	3750
Weight (approx)	kg	42



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INDOOR FUSE TYPE MEDIUM VOLTAGE POTENTIAL TRANSFORMER

VTIF 24 1P2-CR

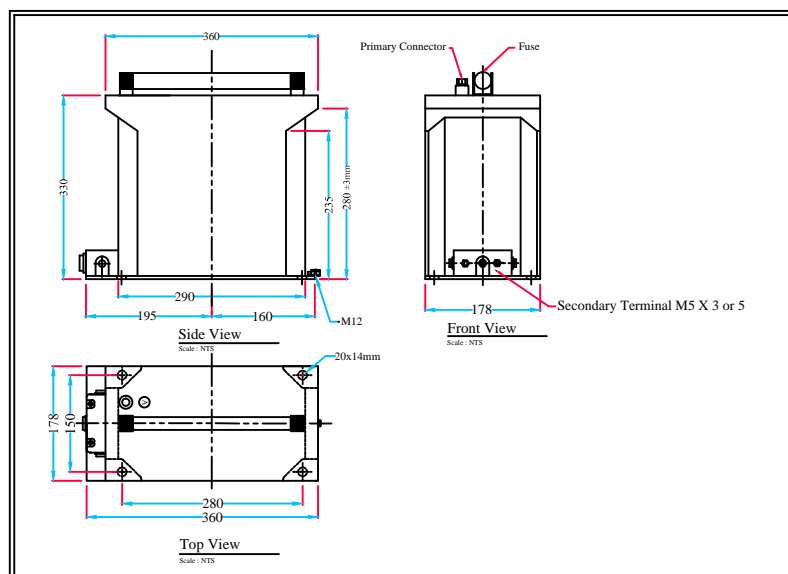
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Conduit box : Polypropylene, 16 mm threaded hubs. Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	VTIF 24 1P2-CR	
Standard		IEC 61869-1 & 3 and SPLN D3.014-2:2010
Operating voltage (Max)	kV	24
Rated power frequency withstand test (1 Minute)	kV	50
Impulse test voltage (1.2/50Us)	kV	125
Rated frequency	Hz	50 or 60
Primary voltage	V	15000, 17500, 20000 $\sqrt{3}$
Secondary voltage	V	100 or 110/ $\sqrt{3}$
Residuary voltage	V	100 or 110/ $\sqrt{3}$
Secondary thermal burden current 8h (earth fault winding)	A	6
Rated voltage factor	-	1.9 x Un (30 sec. or 8 hours)
Short time load (mechanical)	N	3750
Weight (approximately)	Kg	48



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INDOOR FUSE TYPE MEDIUM VOLTAGE POTENTIAL TRANSFORMER

VTIF 24 1P1-CR

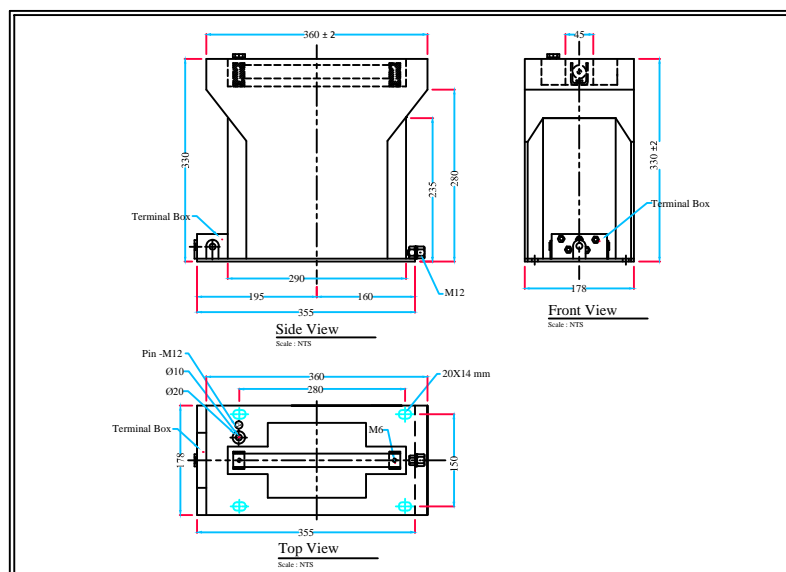
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Conduit box : Polypropylene, 16 mm threaded hubs. Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violate (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	VTIF 24 1P1-CR	
Standard		IEC 61869-1 & 3 and SPLN D3.014-2:2010
Operating voltage (Max)	kV	24
Rated power frequency withstand test (1 Minute)	kV	50
Impulse test voltage (1.2/50Us)	kV	125
Rated frequency	Hz	50 or 60
Primary voltage	V	15000, 17500, 20000 $\sqrt{3}$
Secondary voltage	V	100 or 110/ $\sqrt{3}$
Residuary voltage	V	100 or 110/ $\sqrt{3}$
Secondary thermal burden current 8h (earth fault winding)	A	6
Rated voltage factor	-	1.9 x Un (30 sec. or 8 hours)
Short time load (mechanical)	N	3750
Weight (approximately)	Kg	48



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INDOOR MEDIUM VOLTAGE PHASE TO PHASE POTENTIAL TRANSFORMER

VTI 24 2P-CR

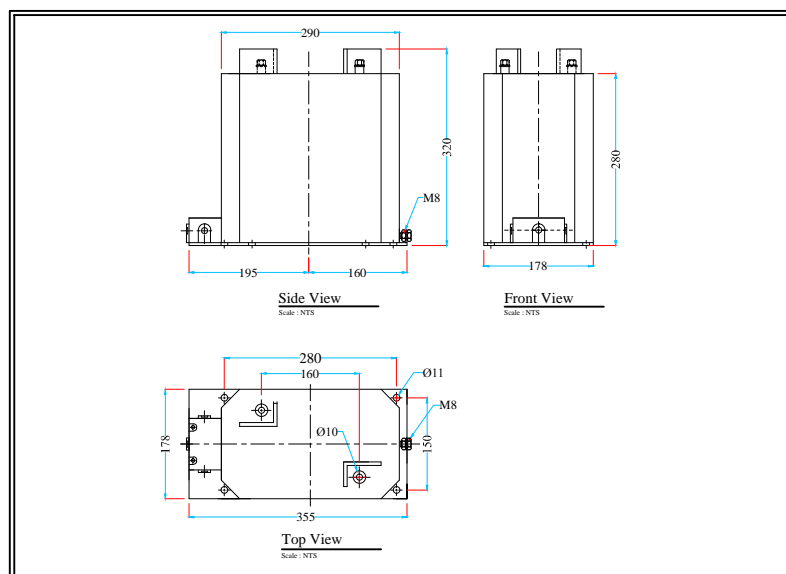
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Conduit box : Polypropylene, 16 mm threaded hubs. Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	- Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violet (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life	- HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	VTI 24 2P-CR	
Standard		IEC 61869-1 & 3 and SPLN D3.014-2:2010
Operating voltage (Max)	kV	24
Rated power frequency withstand test (1 Minute)	kV	28
Impulse test voltage (1.2/50Us)	kV	75
Rated frequency	Hz	50 or 60
Primary voltage	V	Up to 12000
Secondary voltage	V	100 or 110
Residuary voltage	V	100 or 110
Secondary thermal burden current 8h (earth fault winding)	A	4
Rated voltage factor	-	1.2 Un Continue
Short time load (mechanical)	N	3750
Weight (approximately)	Kg	32



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INDOOR TYPE MEDIUM VOLTAGE POTENTIAL TRANSFORMER

VTI 24 S-2

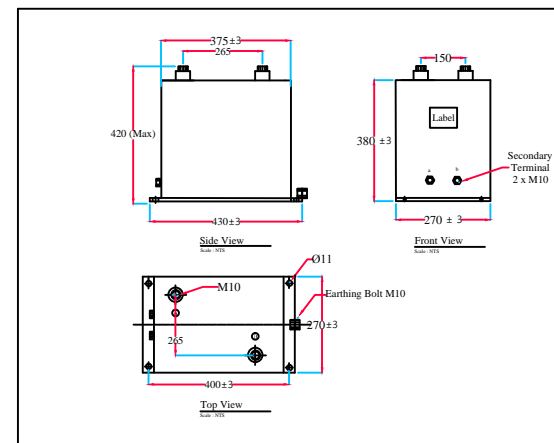
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Conduit box : Polypropylene, 16 mm threaded hubs. Name plate : Laser Print, Anodized aluminum/ special printing paper. Mounting : Horizontal, Vertical & inverted options	- Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violet (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life	- HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	VTI 24 S-2	
Standard	IEC 61869-3	
Connection	Line to Line Conection	
Operating voltage (Max)	kV	24
Rated power frequency withstand test (1 Minute)	kV	50
Impulse test voltage (1.2/50Us)	Hz	125
Rated frequency	V	50 or 60
Primary voltage	V	15000, 17500, 20000
Secondary voltage	V	100, 110 , 220
Rate voltage factor	1.2 x Un Cont	
Short time load (mechanical)	N	3750
Weight (approximately)	Kg	Apx 105



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INDOOR FUSE TYPE MEDIUM VOLTAGE POTENTIAL TRANSFORMER

VTIF 24 2P-CR

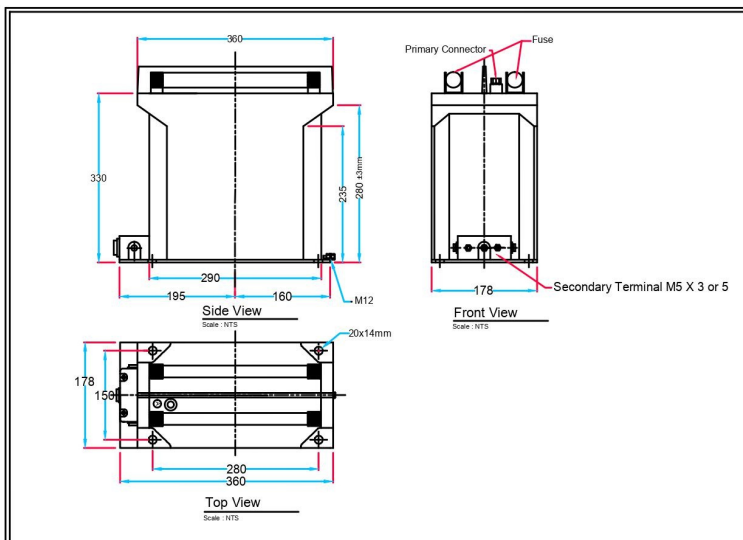
TS Combines superior design and advanced testing with HCEP resin and APG process technology, to produced reliable indoor medium voltage instrument transformer that meet IEC 61869-3, Edi. 1.0 2011-07 & SPLN D3.014-2:2010 and IEC 61869-1, Edi. 1.0 2007-10 insulation level standards,

Features

General	Electrical	Mechanical
Insulation : Hydrophobic Cycloaliphatic Epoxy (HCEP) Base Plate : Cadmium coated metal. Conduit box : Polypropylene, 16 mm threaded hubs. Name plate : Anodized aluminum/special printing paper. Mounting : Horizontal, Vertical & inverted options	<ul style="list-style-type: none"> - Excellent dielectric properties stable in indoor humid condition. - Enhanced thermal cycle resistance. - High resistance to erosion from ultra violet (UV) radiation High tracking and arc resistance. - Corona and Discharge free Operation. - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weather ability Ideal for indoor Application. - Compact Design - Low of Maintenance. Application: Designed for indoor service ; suitable for operating meters, instruments, relays, and control devices.

Technical Data

Type	VTIF 24 2P-CR	
Standard		IEC 61869-1 & 3 and SPLN D3.014-2:2010
Operating voltage (Max)	kV	24
Rated power frequency withstand test (1 Minute)	kV	50
Impulse test voltage (1.2/50Us)	kV	125
Rated frequency	Hz	50 or 60
Primary voltage	V	15000, 17500, 20000
Secondary voltage	V	100 or 110
Residuary voltage	V	100 or 110
Secondary thermal burden current 8h (earth fault winding)	A	6
Rated voltage factor	-	1.9 x Un (30 sec. or 8 hours)
Short time load (mechanical)	N	3750
Weight (approximately)	Kg	48



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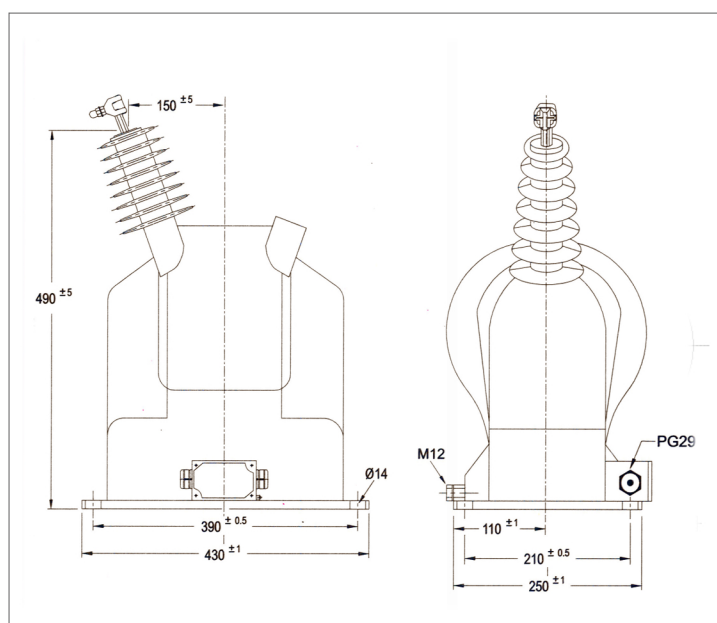
TS combines superior design and advanced testing with HCEP resin and APG process technology, to produce reliable outdoor Medium Voltage instrument Transformers that meet IEEE C57.13-1993 and CSA CAN3-C13 insulation level standards, and IEEE C12.11 dimension standards.

Features

General	Electrical	Mechanical
Insulation: Hydrophobic Cycloaliphatic Epoxy (HCEP) Baseplate: Marine grade aluminum / Galvanized metal Conduit box: Cast aluminum removable Nameplate: Anodized aluminum / Special printing paper Mounting: Horizontal, vertical, & inverted mounting options.	<ul style="list-style-type: none"> - Excellent dielectric properties- stable in outdoor humid conditions - Enhanced thermal cycle resistance - High resistance to erosion from ultra violet (UV) radiation - High tracking and arc resistance - Corona and Discharge free operation - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weatherability ideal for indoor applications - Excellent water repellent characteristics - Compact design - Low Maintenance <p>Application Designed for outdoor service; suitable for operating meters, instruments, relays and control devices.</p>

Technical Data

Type	VTO 24-1	
Standard	IEC, ANSI BS & AS	
Connection	Line to earth Connection	
Operating Voltage (max)	kV	24
Rated power frequency withstand voltage (1 minutes)	kV	50
Impulse test voltage (1.2/50us)	kV	125
Rated frequency	Hz	50 or 60
Primary voltage	V	24000/√3
Secondary Voltage	V	100/√3-240
Residuary Voltage	V	100/3 - 110/3
Secondary Thermal Burden Current 8h (earth fault winding)	A	6
Rated Voltage Factor	1.9 x U _n (30 sec or 8 hours)	
Creepage distance (min)	mm	830
Short time load (Mechanical)	N	3750
Weight (approx)	kg	55



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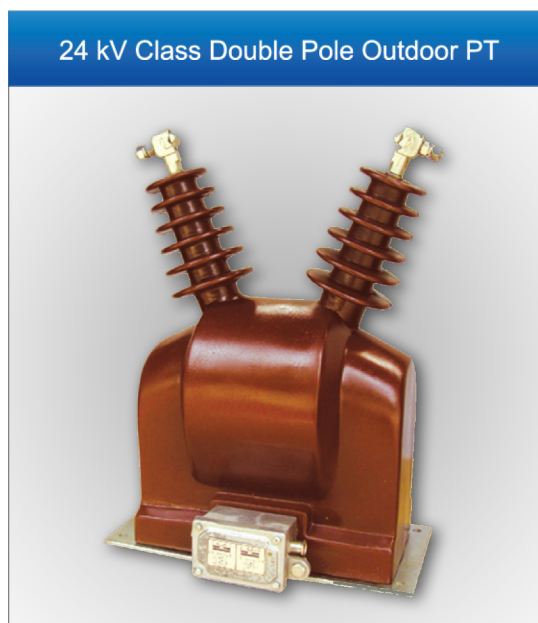
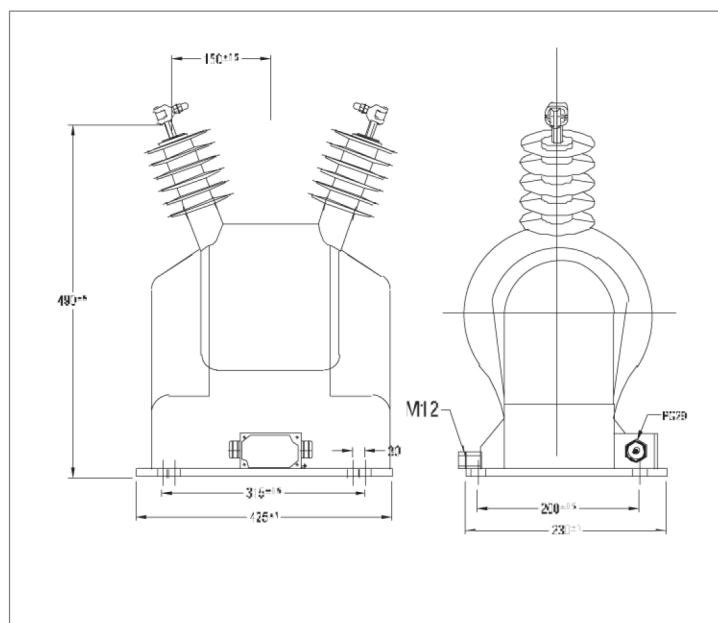
TS combines superior design and advanced testing with HCEP resin and APG process technology, to produce reliable Outdoor Medium Voltage instrument Transformers that meet IEEE C57.13-1993 and CSA CAN3-C13 insulation level standards, and IEEE C12.11 dimension standards.

Features

General	Electrical	Mechanical
<p>Insulation: Hydrophobic Cycloaliphatic Epoxy (HCEP)</p> <p>Baseplate: Marine grade aluminum / Galvanized metal</p> <p>Conduit box: Cast aluminum removable, 25mm threaded hubs</p> <p>Nameplate: Anodized aluminum</p> <p>Mounting: Horizontal, vertical, & inverted mounting options.</p>	<ul style="list-style-type: none"> - Excellent dielectric properties- stable in outdoor humid conditions - Enhanced thermal cycle resistance - High resistance to erosion from ultra violet (UV) radiation - High tracking and arc resistance - Corona and Discharge free operation - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weatherability ideal for outdoor applications - Excellent water repellent characteristics - Compact design - Low Maintenance <p>Application Designed for outdoor service; suitable for operating meters, instruments, relays and control devices.</p>

Technical Data

Type	VTO 24 2PB-CR	
Standard	IEC, ANSI BS & AS	
Connection	Line to line Connection	
Operating Voltage (max)	kV	24
Rated power frequency withstand voltage (1 minutes)	kV	50
Impulse test voltage (1.2/50us)	kV	125
Rated frequency	Hz	50 or 60
Primary voltage	V	24000
Secondary Voltage	V	110-240
Secondary Thermal Burden Current 8h (earth fault winding)	A	6
Rated Voltage Factor	1.2 x U _n Continuous	
Creepage distance (min)	mm	830
Short time load (Mechanical)	N	3750
Weight (approx)	kg	55



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OUTDOOR VOLTAGE TRANSFORMER

VTO 36 1P-CR

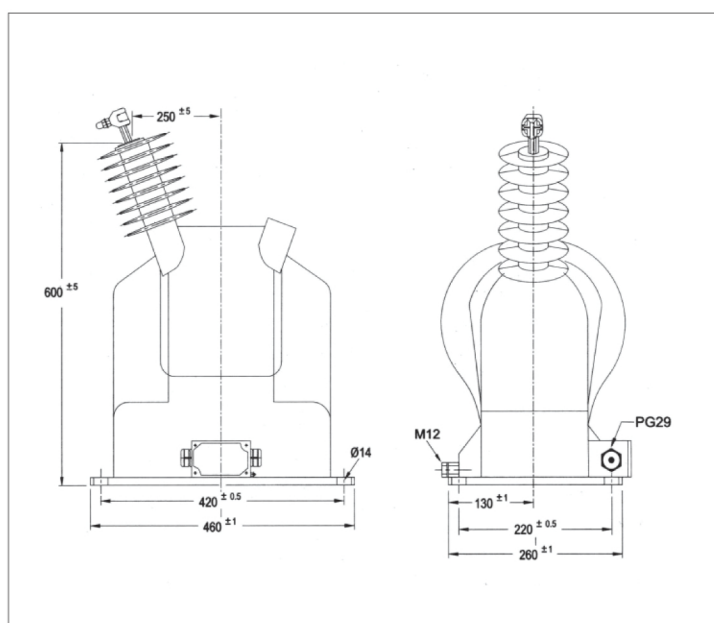
TS combines superior design and advanced testing with HCEP resin and APG process technology, to produce reliable outdoor Medium Voltage instrument Transformers that meet IEEE C57.13-1993 and CSA CAN3-C13 insulation level standards, and IEEE C12.11 dimension standards.

Features

General	Electrical	Mechanical
Insulation: Hydrophobic Cycloaliphatic Epoxy (HCEP) Baseplate: Marine grade aluminum / Galvanized metal Conduit box: Cast aluminum removable, 25mm threaded hubs Nameplate: Anodized aluminum Mounting: Horizontal, vertical, & inverted mounting options.	<ul style="list-style-type: none"> - Excellent dielectric properties- stable in outdoor humid conditions - Enhanced thermal cycle resistance - High resistance to erosion from ultra violet (UV) radiation - High tracking and arc resistance - Corona and Discharge free operation - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weatherability ideal for outdoor applications - Excellent water repellent characteristics - Compact design - Low Maintenance Application Designed for outdoor service; suitable for operating meters, instruments, relays and control devices.

Technical Data

Type	VTO 36 1P-CR	
Standard	IEC, ANSI BS & AS	
Connection	Line to earth Connection	
Operating Voltage (max)	kV	36
Rated power frequency withstand voltage (1 minutes)	kV	70
Impulse test voltage (1.2/50us)	kV	170-200
Rated frequency	Hz	50 or 60
Primary voltage	V	36000/√3
Secondary Voltage	V	100/√3-240
Residuary Voltage	V	100/3-120/3
Secondary Thermal Burden Current 8h (earth fault winding)	A	6
Rated Voltage Factor	1.9 x U _n (30 sec or 8hours)	
Creepage distance (min)	mm	1230
Short time load (Mechanical)	N	3750
Weight (approx)	kg	65



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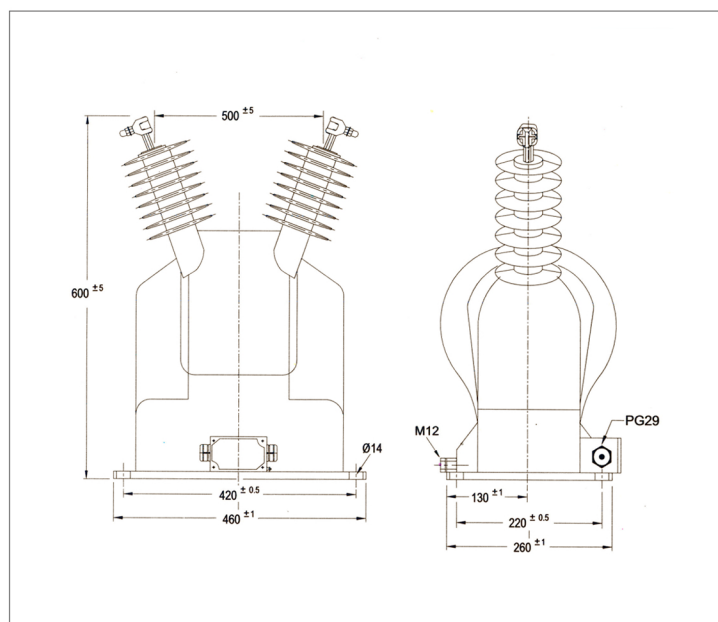
TS combines superior design and advanced testing with HCEP resin and APG process technology, to produce reliable Outdoor Medium Voltage instrument Transformers that meet IEEE C57.13-1993 and CSA CAN3-C13 insulation level standards, and IEEE C12.11 dimension standards.

Features

General	Electrical	Mechanical
<p>Insulation: Hydrophobic Cycloaliphatic Epoxy (HCEP)</p> <p>Baseplate: Marine grade aluminum / Galvanized metal</p> <p>Conduit box: Cast aluminum, removable, 25mm threaded hubs</p> <p>Nameplate: Anodized aluminum</p> <p>Mounting: Horizontal, vertical, & inverted mounting options.</p>	<ul style="list-style-type: none"> - Excellent dielectric properties- stable in outdoor humid conditions - Enhanced thermal cycle resistance - High resistance to erosion from ultra violet (UV) radiation - High tracking and arc resistance - Corona and Discharge free operation - Extended service life 	<ul style="list-style-type: none"> - HCEP epoxy offers superior weatherability ideal for outdoor applications - Excellent water repellent characteristics - Compact design - Low Maintenance <p>Application Designed for outdoor service; suitable for operating meters, instruments, relays and control devices.</p>

Technical Data

Type	VTO 36 2P-CR	
Standard	IEC, ANSI BS & AS	
Connection	Line to line Connection	
Operating Voltage (max)	kV	36
Rated power frequency withstand voltage (1 minutes)	kV	70
Impulse test voltage (1.2/50us)	kV	170-200
Rated frequency	Hz	50 or 60
Primary voltage	V	36000
Secondary Voltage	V	100-240
Secondary Thermal Burden Current 8h (earth fault winding)	A	6
Rated Voltage Factor	1.2 x U _n Continuous	
Creepage distance (min)	mm	1230
Short time load (Mechanical)	N	3750
Weight (approx)	kg	70



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PT. TS TRANSFORMER INDONESIA

Factory :

Jl. RAYA CIKANDE - RANGKASBITUNG KM. 13.7

DS. BOJOT, KEC. JAWILAN

KAB. SERANG - BANTEN

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