

# Type designations

## Instrument transformers and sensors

ABB instrument transformers and sensors follow type designations to help customers quickly understand key product attributes and ensure proper product selection. While there are some exceptions, including ABB designs acquired from the former Kuhlman Electric Corporation, most high-volume products in the North American portfolio for ANSI/IEEE markets follow the type designations below.

### 600 volt instrument transformers

	Character	1	2	3	4 - 5
Description	Type	Rating and type	Window size	(S-C-A-L-E gives closer approximation of window size in inches)	
Current transformer (CT)	IMC CSF CBT/1 CSH CBT-H CMS CBT-S CLC CMV CLC-S CMV-S CLE CMF RLC CMF-S	<b>I</b> = Current transformer, 600 Volt, indicating  <b>C</b> = Current transformer, 600 Volt, metering  <b>R</b> = Current transformer 600 Volt, relaying	<b>S</b> = Small, 1"- 2" <b>M</b> = Medium, 2"- 5" <b>L</b> = Large, 5"- 8.25" <b>G</b> = Extra large, > 8.25" <b>B</b> = Bar	<b>S</b> <b>C</b> <b>A</b> <b>L</b> <b>E</b> 1.0"    1.25"    1.5"    1.75"    2.0" 2.0"    2.5"      3.25"    4.0"    5.0" 5.0"    5.5"      6.5"    7.5"    8.25" <b>F</b> = family of window sizes (Ex: CMF with 2.5" and 3 1/16" windows) <b>H</b> = includes 0.5 ohm burden <b>T</b> = thru type <b>V</b> = oval	<b>H</b> = includes 0.5 ohm burden  <b>S</b> = ABB AccuRange® CT: 0.15S accuracy class (0.15% accy from 1% I <sub>nom</sub> to rating factor)
Voltage transformer (VT)	PPM PPX PPW PPD	<b>P</b> = Voltage transformer, 600 Volt	<b>P</b> = Performance	Burden: <b>W</b> : 0.3 accuracy to 12.5 VA; <b>X</b> : 0.3 to 25 VA; <b>M</b> : 0.3 to 35 VA	

### 5 - 25 kV instrument transformers

	Character	1	2	3	4 - 5	6 - 7
Description	Type	Rating and type	Indoor or outdoor			
Current transformer (CT)	KIR-60, 11 KIT-60, 11 KOR-60, 11 KON-11 KOR-15 KOT-60, 11	<b>K</b> = Current transformer, > 600 Volt	<b>I</b> = Indoor <b>O</b> = Outdoor	<b>N</b> = 0.3B-0.5    0.3 = 0.3% accy to RF, <b>P</b> = 0.3B-0.9    0.6% @ 10% I <sub>nom</sub> <b>R</b> = 0.3B-1.8 <b>T</b> = Thru type  B-0.5 = up to 0.5 ohm burden (impedance)  B-0.9 = up to 0.9 ohm burden (impedance)  B-1.8 = up to 1.8 ohm burden (impedance)	<b>60</b> = 60 kV BIL <b>75</b> = 75 kV BIL <b>95</b> = 95 kV BIL <b>11</b> = 110 kV BIL <b>12</b> = 120 kV BIL <b>15</b> = 150 kV BIL <b>20</b> = 200 kV BIL	<b>B</b> = B series (Gen 2) <b>C</b> = C Series (Gen 3) <b>E</b> = 0.15 accuracy class (0.15% accy from 100% I <sub>nom</sub> to rating factor, 0.3% from 5% to I <sub>nom</sub> ) <b>ER</b> = ABB AccuRange® CT: 0.15S accuracy class (0.15% accy from 1% I <sub>nom</sub> to rating factor) <b>HA</b> = Same accuracy and range as ER, with reduced burden and higher rating factor <b>G</b> = Line-to-ground <b>M</b> = Modified, one bushing <b>R</b> = ABB ResiVolt™ technology: very fast transient (VFT) resistant
Voltage transformer (VT)	VIY-60 VOY-60 VIZ-75, 11 VOZ-75, 11 VOG-11 VOZ-15 VIZZ-15	<b>V</b> = Voltage transformer, > 600 Volt	<b>I</b> = Indoor <b>O</b> = Outdoor	<b>G</b> = Single bushing, line-to-ground  Burden: <b>Y</b> = 0.3 accuracy to 75 VA <b>Z</b> = 0.3 accuracy to 200 VA <b>ZZ</b> = 0.3 accuracy to 400 VA		
CT/VT combo	CVC	<b>C</b> = Combination, > 600 volt	<b>V</b> = Voltage	<b>C</b> = Current		

600 V Kuhlman legacy instrument transformers

Type	Character 1	Character 2-3
ACT-633	A = Auxiliary	CT = Current transformer
ACT-645		PT = Voltage transformer
APT-646		
APT-733		
GCT-802	G = Generator	CT = Current transformer
GCT-848		
PS-981	P = Polyurethane	S = Slip-over CT
PH-982		H = High accuracy slip-over CT
PSH-983		SH = Standing high, upright base mounted
PSG-981		SG = Slip-over generator CT
RMB-644	R = Round ID	MB = With mounting features in block OD
SP-061	S = Split-core	P = Polyurethane slip-over CT

15 - 35 kV Kuhlman legacy instrument transformers

Prefix	Voltage class	Suffix
LG (standard accuracy)	15 = 15 kV, 110 kV BIL	585 = 4.5" ID post type, small frame
	25 = 25 kV, 150 kV BIL	879 = 4.5" ID post type, large frame
LGX (high accuracy)	34 = 34 kV, 200 kV BIL	6513 = 8.75" ID post type, large frame
		683 = 4.5" ID, square frame
		051 = 4.5"/8.75" standard, upright
		051W = 4.5"/8.75" large, upright

DistribuSense® sensors

Character		1	2	3	4 - 6
Description	Type	Output	Input/application		
Outdoor	KLS RSS VCS VKS VLS WLS	K = Current R = Relaying V = Voltage W = Watts	L = Line S = Submersible C = Combination K = Current	S = Sensor	-110 = 110 kV BIL -150 = 150 kV BIL -200 = 200 kV BIL -1 = Series 1
Indoor	KECA 80 C85 KECA 80 C184 KECA 80 D85	KECA = Current	80 = Rated primary current	C = Circular core D = Split core	85 = inner opening diameter in mm 184 = inner opening diameter in mm
	KEVA 17.5 B21	KEVA = Voltage	17.5 = Voltage class	B21 = cable outlet on side rather than bottom	

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