Ziegler

Redefine Innovative Metering

Technical Datasheet

SUMMATION CT

CURRENT TRANSFORMER

SUMMATION CT

CURRENT TRANSFORMER

ZIT SIG75 | ZIT SIG 15

Summation CTs are designed to summarized the different rating of CTs of equal phase relation with any angle of phase difference. They are used to add Secondary Current of different CTs with same secondary CT secondary out i.e all CTs with secondary of 5A in order to measure with one CT only. Then the output current again constitutes a standardize quantity.

Ziegler has range from 5+5 to 5+5+5+5+5+5+5+55/5 range summation CTs with a accuracy of 0.5 and class 1.

Note: When using unequal main CTs then the ratio of lowest primary main CT to highest primary current main CTs should not exceed 1:8

Product Features

- Easy Installation
- Nickle Plated Secondary terminals with marking
- Instrument security factor FS5 and FS10
- IP 20 Terminal Protection with self lifting terminal clamps
- Rated Short Time Thermal Current upto 60 x In.
- Dynamic Short circuit current upto 2.5 x I_{th}
- Secondary Current 5A
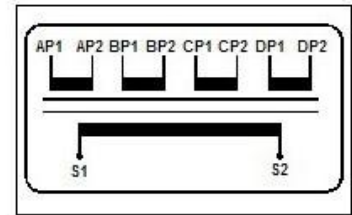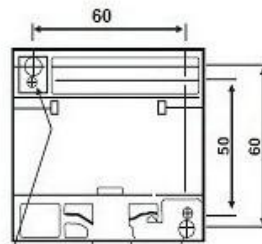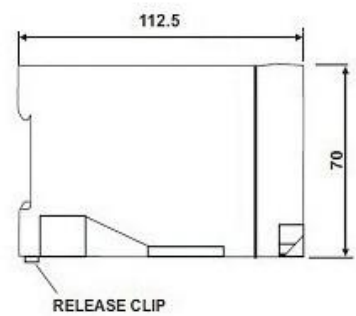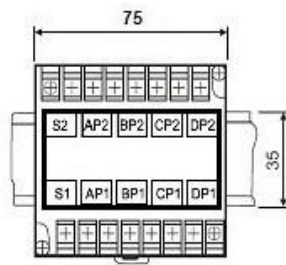- VA rating available from 5VA to 25VA

Specifications

Technical Data	
Accuracy Class	0.5, 1
Rated Burden	5VA - 25VA
Rated Voltage	720V
Rated Frequency	50/60Hz
Rated Primary Current	5+5 to 5+5+5+5+5+5+5+5
Rated Secondary Current	5A
Working Temperature	-25˚C to 45˚C
High Voltage Test	3KV for 1 mint at 50/60Hz
Insulation Class	E(max 120˚C)
Case	Made of non-flammable plastic
Size	75 x 70 x 112 & 150 x 70 x 112
Terminals	M4 Screw for terminals and M5 screw for mounting
Applicable Standards	
General	IEC 61869-1&2 / IEC 60044-1
Safety	IEC 61010-1-2010
IP for water & dust	IEC 60529

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ZIT SIG 75	Class	
Primary Current	1	0.5
5+5	5VA	5VA
	10VA	10VA
	15VA	15VA
	20VA	-
	25VA	-
5+5+5	5VA	5VA
	10VA	10VA
	15VA	15VA
	20VA	-
	25VA	-
5+5+5+5	5VA	5VA
	10VA	10VA
	15VA	15VA
	20VA	-
	25VA	-

75

35

112.5

70

RELEASE CLIP

S2 AP2 BP2 CP2 DP2
S1 AP1 BP1 CP1 DP1

60

50 | 60

2 FIXING HOLE 'A' TO SUIT M4

2 FIXING HOLE 'B' TO SUIT M5

AP1 AP2 BP1 BP2 CP1 CP2 DP1 DP2

S1　　　　　　S2

ZIT SIG 15	Class	
Primary Current	1	0.5
5+5+5+5+5	5VA	5VA
	10VA	10VA
	15VA	15VA
	20VA	-
	25VA	-
5+5+5+5+5+5	5VA	5VA
	10VA	10VA
	15VA	15VA
	20VA	-
	25VA	-
5+5+5+5+5+5+5	5VA	5VA
	10VA	10VA
	15VA	15VA
	20VA	-
	25VA	-
5+5+5+5+5+5+5+5	5VA	5VA
	10VA	10VA
	15VA	15VA
	20VA	-
	25VA	-

150

35

112.5

70

S2 AP2 BP2 CP2 DP2 EP2 FP2 GP2 HP2
S1 AP1 BP1 CP1 DP1 EP1 FP1 GP1 HP1

RELEASE CLIP

135

50 | 60

2 FIXING HOLE 'A' TO SUIT M4

2 FIXING HOLE 'B' TO SUIT M5

AP1 AP2 BP1 BP2 CP1 CP2 DP1 DP2 EP1 EP2 FP1 FP2 GP1 GP2 HP1 HP2

S1　　　　　　　　　　　S2
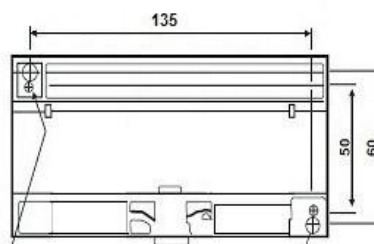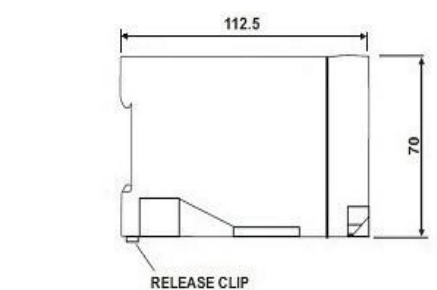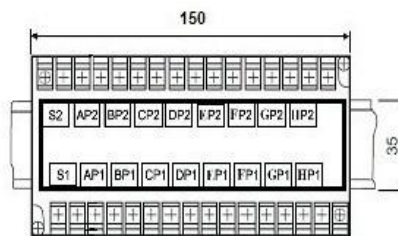
SUMMATION CT

CURRENT TRANSFORMER

Guidance for Ordering the Summation CT

Example:

Main Transformer Ratio

          500/5A
          400/5A
          300/5A

Total Current = 1200/5A

Burden – 1 Ammeter

Required Active performance of the Current Transformer.

Ammeter	1.5VA
Measurement Conductor Loss	1.5VA
Consumption in Summation CT	4.0VA
Total VA	7.0VA

The Individual Main transformer must provide it's VA Share from this 7.0VA .

Consideration must also be given to the respective power loss between main transformer and the summation transformer including other possible losses.

1. Main Transformer 500/5A (500/1200) X 7 = 2.92VA + additional Losses

2. Main Transformer 400/5A (400/1200) X 7 = 2.33VA + additional Losses

3. Main Transformer 300/5A (300/1200) X 7 = 1.75VA + additional Losses

The VA values of the Main Transformer are to be rounded up to the corresponding values in above mentioned table

Ordering Information

- Class of accuracy   :   1 & 0.5
- Rated Primary current inputs   :   5+5+5
- Rated ratios of main C.T.'s   :   As per requirement
- Rated secondary current   :   5A
- Rated Burden   :   15A

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Ziegler Instrumentation UK Ltd.