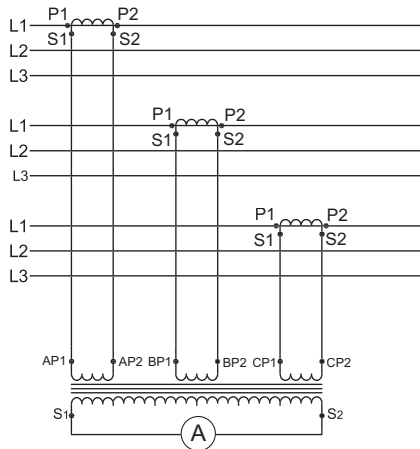


**SUMMATION CURRENT TRANSFORMER** are designed to summarize several synchronous alternating currents of equal phase relation with any angle of phase difference. They are used to add secondary currents of several main c.t.'s in order to measure with the CT only.



Current measurement in phase L1

## AN EXAMPLE OF POWER SELECTION FOR MAIN TRANSFORMERS WITH DIFFERENT TRANSMISSIONS

Main Transformer ratio:

$$\begin{array}{r} 500/5A \\ 400/5A \\ \hline 300/5A \\ \hline \text{Total current} = 1200/5A \end{array}$$

Burden - 1 Ammeter

Required Active performance of the Current Transformer:

Ammeter	1.5 VA
Measurement Conductor Loss	1.5 VA
Consumption in Summation CT	4.0 VA
<b>Total VA</b>	<b>7.0 VA</b>

The individual main transformer must provide its VA share from this 7.0 VA.

1. Main transformer 500/ 5A  $(500/ 1200) \times 7 = 2.92 \text{ VA} + \text{additional losses} \approx 3.75 \text{ VA}^*$
2. Main transformer 400/ 5A  $(400/ 1200) \times 7 = 2.33 \text{ VA} + \text{additional losses} \approx 2.5 \text{ VA}^*$
3. Main transformer 300/ 5A  $(300/ 1200) \times 7 = 1.75 \text{ VA} + \text{additional losses} \approx 2.5 \text{ VA}^*$

\* The VA values of the main transformer are to be rounded up to the corresponding values in our chart.

**Note:** If using unequal main c.t.'s than ration of lowest primary main c.t. current to the highest one should not exceed 1:8.

## FEATURES:

- Available current transformers versions with 2 to 8 primary windings.
- Nickel plated secondary terminals with +/- screws.
- Multiple mounting methods, including wall mounting, DIN rail 35mm.
- Terminal protection IP10.

## GENERAL SPECIFICATION

<b>Applicable standard:</b>	IEC 61869-1/2
<b>Case:</b>	self-extinguishing plastic
<b>Connection:</b>	Two connection on each side. M4 screws with self lifting clamp strap.
<b>Insulation class:</b>	E (max 120°C)
<b>Maximum system voltage:</b>	0.72 kV
<b>Operating frequency:</b>	50/60 Hz
<b>Test voltage:</b>	3 kV, 50 Hz, 1 min
<b>Rated primary rating:</b>	(2..8) x 5A
<b>Rated secondary output:</b>	5A
<b>Rated burden:</b>	5; 10; 15; 20; 25 VA
<b>Accuracy class:</b>	0.5; 1
<b>Ambient temperature:</b>	-25°C ... +40°C
<b>Storage temperature:</b>	-50°C ... +80°C
<b>Thermal short circuit current (I<sub>th</sub>):</b>	60 x I <sub>n</sub>
<b>Dynamic short circuit current (I<sub>dyn</sub>):</b>	2,5 x I <sub>th</sub>
<b>Instrument security factor (FS):</b>	5, 10

## FEATURES:



## OUTPUTS:



# LU01- SUMMATION CURRENT TRANSFORMERS



	LU01 (75)
Depth	70 mm
Width	75 mm
Inputs	2 x 5A...4 x 5A
Secondary current	5 A
Accuracy class	0.5; 1

INPUTS:

2 x 5A  
...  
4 x 5A

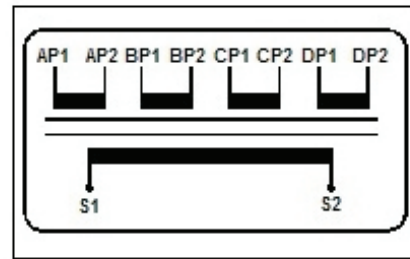
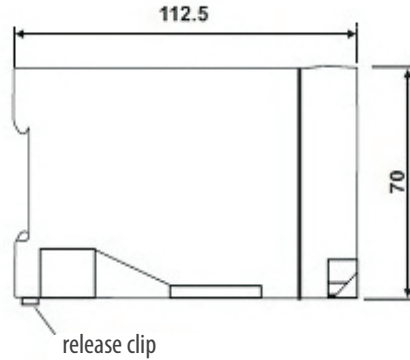
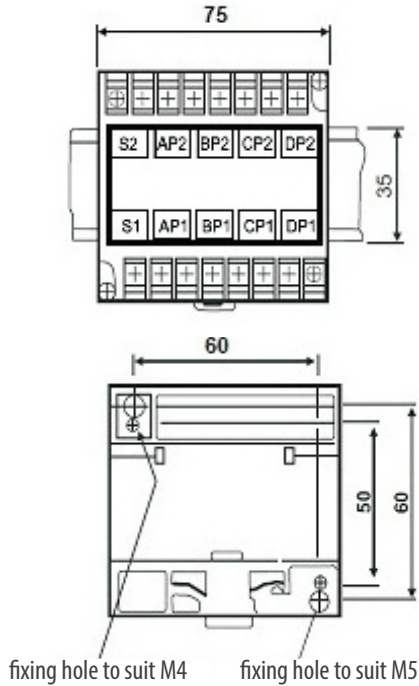
OUTPUTS:

5A



## DIMENSIONS

LU01 (75)



## ORDERING CODES

Transformer type		LU01 (75)		
Accuracy class		0.5	1	
Code		5	1	
02	2 x 5A	Transformer burden		Code
		5 VA	5 VA	08
		10 VA	10 VA	11
		15 VA	15 VA	13
		-	20 VA	14
-	25 VA	17		
03	3 x 5A	5 VA	5 VA	08
		10 VA	10 VA	11
		15 VA	15 VA	13
		-	20 VA	14
		-	25 VA	17
04	4 x 5A	5 VA	5 VA	08
		10 VA	10 VA	11
		15 VA	15 VA	13
		-	20 VA	14
		-	25 VA	17



Ordering example: Order code LU01 0255111L00000 means the summation transformer LU01 (75), INPUTS: 2x 5A, Class 1, 10 VA

# LU01- SUMMATION CURRENT TRANSFORMERS



INPUTS:

5 x 5A  
...  
8 x 5A

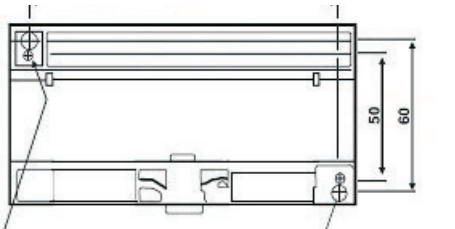
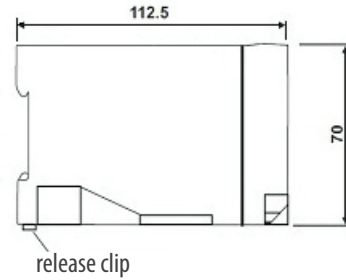
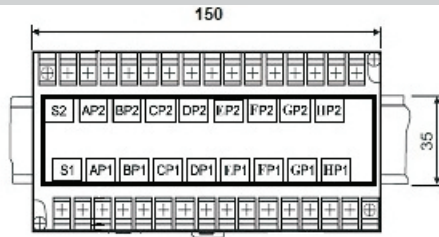
OUTPUTS:

5 A

	LU01 (150)
Depth	70 mm
Width	150 mm
Inputs	5 x 5A...8 x 5A
Secondary current	5 A
Accuracy class	0.5; 1

## DIMENSIONS

LU01 (150)



fixing hole to suit M4

fixing hole to suit M5



terminal description

## ORDERING CODES

Transformer type		LU01 (150)		Code
Accuracy class		0.5	1	
Code		5	1	
05	5 x 5A	Transformer burden		08
		5 VA	5 VA	
		10 VA	10 VA	
		15 VA	15 VA	
		-	20 VA	
-	25 VA			
06	6 x 5A	5 VA	5 VA	08
		10 VA	10 VA	11
		15 VA	15 VA	13
		-	20 VA	14
		-	25 VA	17
07	7 x 5A	5 VA	5 VA	08
		10 VA	10 VA	11
		15 VA	15 VA	13
		-	20 VA	14
		-	25 VA	17
08	8 x 5A	5 VA	5 VA	08
		10 VA	10 VA	11
		15 VA	15 VA	13
		-	20 VA	14
		-	25 VA	17



**Ordering example:** Order code LU01 0555111L00000 means the summation transformer LU01 (150), INPUTS: 5x 5A, Class 1, 10 VA