

RCT-SC

Current Transformer



Features:

- Polycarbonate Housing
- Non-flammable and self extinguishing plastic
- Sealable Cover
- Lock Protection Prevents Accidental Opening
- Accuracy class from 0.5 to 1
- Wide measurement range from 30 A to 4000 A
- For busbars of various widths
- Equipped with a tamper-proof cover
- Certification CE , RoHS, cULus

A current transformer is an essential component in modern electrical installations. It steps down high mains current a level safe for measuring instruments.

Advantages:

- Current scaling: The device precisely reduces the current flowing in the circuit to levels acceptable for standard meters and counters. This eliminates the need to invest in expensive equipment designed for high loads.
- The current transformer acts as a protective barrier. It provides galvanic isolation between the high-voltage network and sensitive measuring devices, as well as operating personnel, thereby minimizing the risk of electric shock and equipment damage.
- Reliable network protection: Data supplied by the current transformer enables protection systems to quickly detect and respond to hazardous conditions, such as:
 - System overloads
 - Short circuits in the network

Input/output specification

Rated current primary input	100 A to 6000 A
Rated current secondary output	5 A

Technical specification

Connection	Two secondary terminals on top side with M5 screw
Rated burden	VA 1, 1.5, 2.5, 3.75, 5, 7.5, 10, 15, 20, 30
Class of accuracy	0.5, 1
System Frequency	50/60 Hz
System Voltage	U_m 0.72 kV
Isolation test voltage	4 kV AC for 1 minute
Thermal short circuit current	I_{TH} $60 \times I_n$
Dynamic Short Circuit Current	I_{dyn} $2.5 \times I_{th}$
Insulation class	E (120°C max)
Instrument security factor	FS 2.5, 5, 10

Environmental specifications

Ambient temperature	-25°C to +60°C
Humidity	<95% RH (non condensing)

Mounting

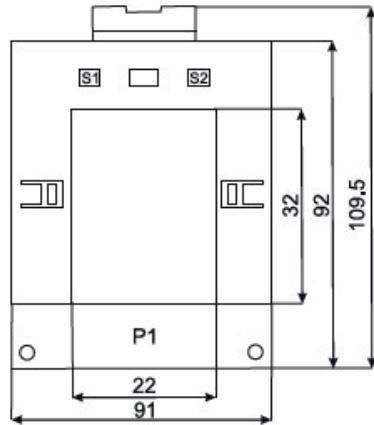
Mounting modes	Busbar Mounting
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Standard

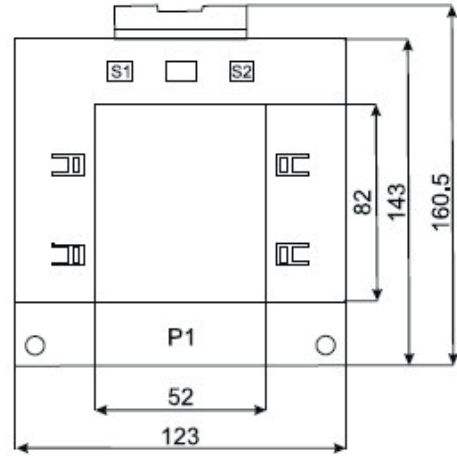
Applicable standard	IEC 61869- 1 & 2
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Dimensions

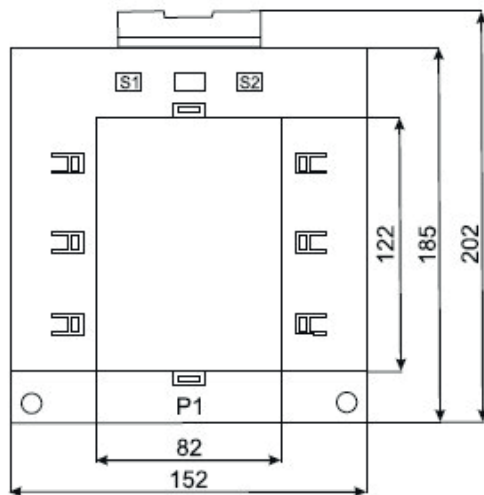
RCT-SC 30/20



RCT-SC 80/50



RCT-SC 120/80



RCT-SC 160/80

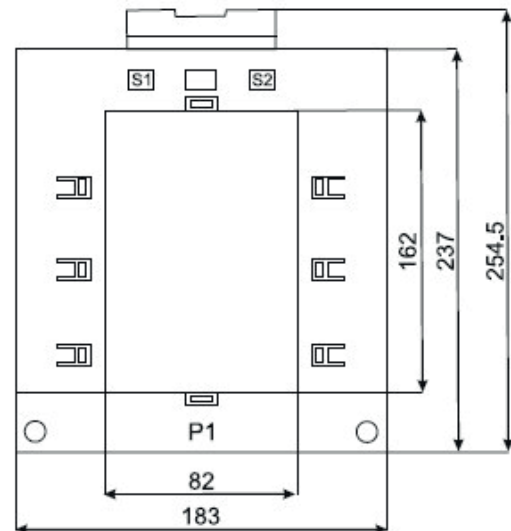
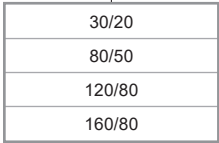


Table of technical specifications and versions

RELPOL code	Index	Electrical parameters					
		Accuracy Class	Primary current (A)	Secondary current (A)	Rated burden (VA)	Weight (kg)	Type
RCT-SC-30/20-100/5/-1-1	2617759	1	100	5	1	870	30/20
RCT-SC-30/20-150/5/-1-0.5	2617808	0,5	150	5	1	800	30/20
RCT-SC-30/20-200/5/-1-0.5	2617809	0,5	200	5	1	820	30/20
RCT-SC-30/20-200/5/-1.5-1	2617810	1	200	5	1,5	850	30/20
RCT-SC-30/20-250/5/-1.5-0.5	2617811	0,5	250	5	1,5	810	30/20
RCT-SC-30/20-250/5/-2.5-1	2617812	1	250	5	2,5	810	30/20
RCT-SC-30/20-300/5/-2.5-0.5	2617813	0,5	300	5	2,5	830	30/20
RCT-SC-30/20-300/5-3.75-1	2617814	1	300	5	3,75	830	30/20
RCT-SC-30/20-400/5.5-0.5	2617815	0,5	400	5	2,5	860	30/20
RCT-SC-30/20-400/5-5-1	2617816	1	400	5	5	860	30/20
RCT-SC-80/50-250/5-1-0.5	2617817	0,5	250	5	1	1120	80/50
RCT-SC-80/50-250/5-2.5-1	2617818	1	250	5	2,5	1120	80/50
RCT-SC-80/50-300/5-1.5-0.5	2617819	0,5	300	5	1,5	1120	80/50
RCT-SC-80/50-300/5-2.5-1	2617820	1	300	5	2,5	1150	80/50
RCT-SC-80/50-400/5-1.5-0.5	2617821	0,5	400	5	1,5	1100	80/50
RCT-SC-80/50-400/5-2.5-1	2617822	1	400	5	2,5	1100	80/50
RCT-SC-80/50-500/5-2.5-0.5	2617823	0,5	500	5	2,5	1170	80/50
RCT-SC-80/50-500/5-5-1	2617824	1	500	5	5	1170	80/50
RCT-SC-80/50-600/5-2.5-0.5	2617825	0,5	600	5	2,5	1190	80/50
RCT-SC-80/50-600/5-5-1	2617826	1	600	5	5	1190	80/50
RCT-SC-80/50-750/5-2.5-0.5	2617827	0,5	750	5	2,5	1200	80/50
RCT-SC-80/50-750/5-7.5-1	2617828	1	750	5	7,5	1200	80/50
RCT-SC-80/50-800/5-2.5-0.5	2617829	0,5	800	5	2,5	1190	80/50
RCT-SC-80/50-800/5-7.5-1	2617830	1	800	5	7,5	1190	80/50
RCT-SC-80/50-1000/5-5-0.5	2617831	0,5	1000	5	5	1120	80/50
RCT-SC-80/50-1000/5-10-1	2617832	1	1000	5	10	1120	80/50
RCT-SC-120/80-500/5-2.5-0.5	2617833	0,5	500	5	2,5	1860	120/80
RCT-SC-120/80-500/5-3.75-1	2617834	1	500	5	3,75	1860	120/80
RCT-SC-120/80-600/5-2.5-0.5	2617835	0,5	600	5	2,5	1860	120/80
RCT-SC-120/80-600/5-5-1	2617836	1	600	5	5	1860	120/80
RCT-SC-120/80-750/5-2.5-0.5	2617837	0,5	750	5	2,5	1940	120/80
RCT-SC-120/80-750/5-2.5-1	2617838	1	750	5	2,5	1940	120/80
RCT-SC-120/80-800/5-2.5-0.5	2617839	0,5	800	5	2,5	1910	120/80
RCT-SC-120/80-800/5-7.5-1	2617840	1	800	5	7,5	1910	120/80
RCT-SC-120/80-1000/5-5-0.5	2617841	0,5	1000	5	5	1880	120/80
RCT-SC-120/80-1000/5-10-1	2617842	1	1000	5	10	1880	120/80
RCT-SC-120/80-1200/5-7.5-0.5	2617843	0,5	1200	5	7,5	1940	120/80
RCT-SC-120/80-1200/5-15-1	2617844	1	1200	5	15	1940	120/80
RCT-SC-120/80-1250/5-7.5-0.5	2617845	0,5	1250	5	7,5	1190	120/80
RCT-SC-120/80-1250/5-15-1	2617846	1	1250	5	15	1190	120/80
RCT-SC-120/80-1500/5-7.5-0.5	2617847	0,5	1500	5	7,5	1190	120/80
RCT-SC-120/80-1500/5-10-1	2617848	1	1500	5	10	1190	120/80
RCT-SC-120/80-1600/5-10-0.5	2617849	0,5	1600	5	10	1990	120/80
RCT-SC-120/80-1600/5-20-1	2617850	1	1600	5	20	1990	120/80
RCT-SC-160/80-1000/5-10-0.5	2617851	0,5	1000	5	10	2170	160/80
RCT-SC-160/80-1000/5-15-1	2617852	1	1000	5	15	2170	160/80
RCT-SC-160/80-1200/5-10-0.5	2617853	0,5	1200	5	10	2250	160/80
RCT-SC-160/80-1250/5-10-0.5	2617854	0,5	1250	5	10	2260	160/80
RCT-SC-160/80-1250/5-15-1	2617855	1	1250	5	15	2260	160/80
RCT-SC-160/80-1500/5-15-0.5	2617856	0,5	1500	5	15	2390	160/80
RCT-SC-160/80-1500/5-20-1	2617857	1	1500	5	20	2390	160/80
RCT-SC-160/80-2000/5-15-0.5	2617858	0,5	2000	5	15	2400	160/80
RCT-SC-160/80-2000/5-20-1	2617859	1	2000	5	20	2400	160/80
RCT-SC-160/80-2500/5-15-0.5	2617860	0,5	2500	5	15	2400	160/80
RCT-SC-160/80-2500/5-20-1	2617861	1	2500	5	20	2400	160/80
RCT-SC-160/80-3000/5-15-0.5	2617862	0,5	3000	5	15	2490	160/80
RCT-SC-160/80-3000/5-20-1	2617863	1	3000	5	20	2490	160/80
RCT-SC-160/80-4000/5-15-0.5	2617864	0,5	4000	5	15	2600	160/80
RCT-SC-160/80-4000/5-20-1	2617865	1	4000	5	20	2600	160/80
RCT-SC-160/80-5000/5-15-0.5	2617866	0,5	5000	5	15	2700	160/80
RCT-SC-160/80-5000/5-20-1	2617867	1	5000	5	20	2700	160/80
RCT-SC-160/80-6000/5-15-0.5	2617868	0,5	6000	5	15	2930	160/80
RCT-SC-160/80-6000/5-20-1	2617869	1	6000	5	20	2930	160/80

Ordering codes



100... 6000	5
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1
1.5
2.5
3.75
5
7.5
10
15
20

0.5
1

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. 2. Never touch any live parts of the device. 3. Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. 4. In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.