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 , c UL us

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

Advantages:

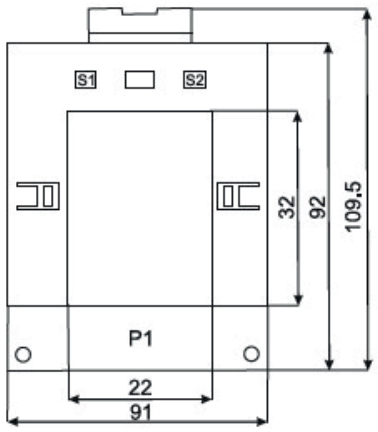
- Current scaling: The device precisely reduces the current flowing in the circuit to levels acceptable for standard meters and counters. This eliminates the need to invest in expensive equipment designed for high loads.
- The current transformer acts as a protective barrier. It provides galvanic isolation 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 × I_n
Dynamic Short Circuit Current	I_{dyn}	2.5 × 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
Standard		
Applicable standard		IEC 61869- 1 & 2

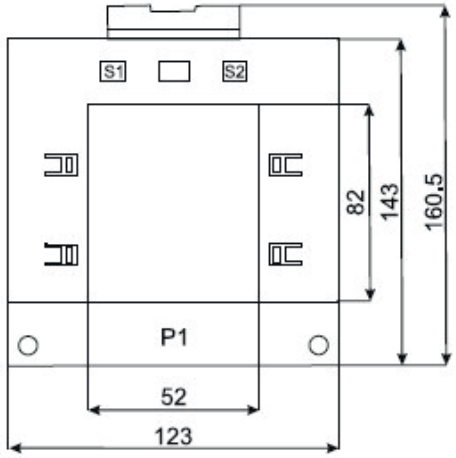
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Dimensions

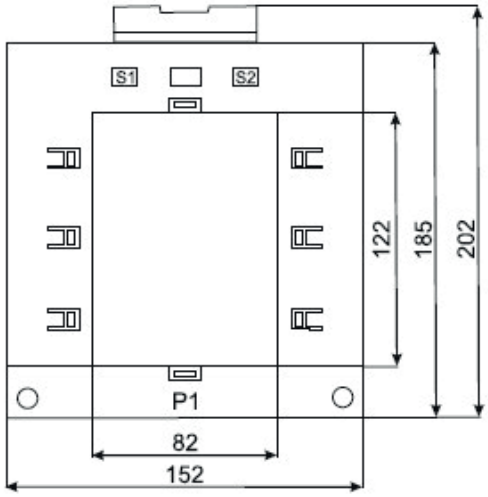
RCT-SC 30/20



RCT-SC 80/50



RCT-SC 120/80



RCT-SC 160/80

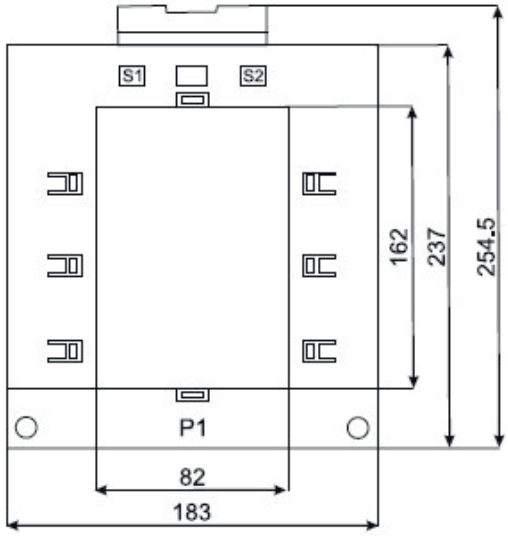
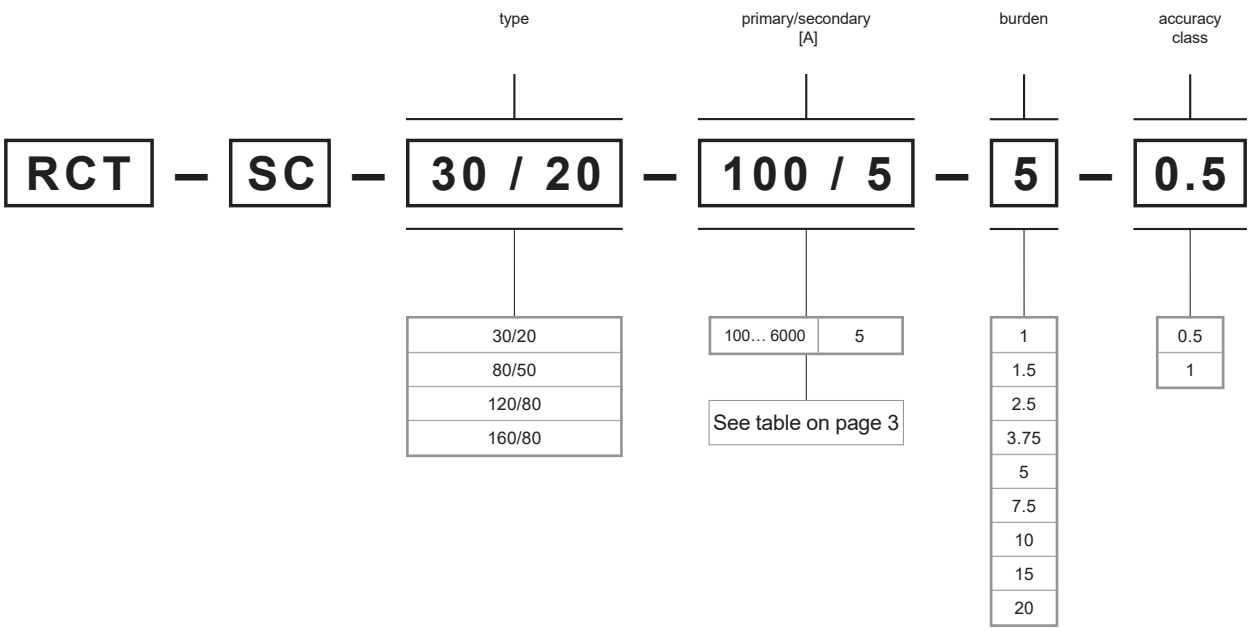


Table of technical specifications and versions

RELPOL code	Index	Electrical parameters					
		Accuracy Class	Primary current (A)	Secondary current (A)	Rated burden (VA)	Weight (kg)	Busbar Dimension (mm)
RCT-SC-30/20-100/5/-1-1	2617759	1	100	5	1	870	32/22
RCT-SC-30/20-150/5/-1-0.5	2617808	0,5	150	5	1	800	
RCT-SC-30/20-200/5/-1-0.5	2617809	0,5	200	5	1	820	
RCT-SC-30/20-200/5/-1.5-1	2617810	1	200	5	1,5	850	
RCT-SC--30/20-250/5/-1.5-0.5	2617811	0,5	250	5	1,5	810	
RCT-SC--30/20-250/5/-2.5-1	2617812	1	250	5	2,5	810	
RCT-SC-30/20-300/5/-2.5-0.5	2617813	0,5	300	5	2,5	830	
RCT-SC-30/20-300/5-3.75-1	2617814	1	300	5	3,75	830	
RCT-SC-30/20-400/5.5-0.5	2617815	0,5	400	5	2,5	860	
RCT-SC-30/20-400/5-5-1	2617816	1	400	5	5	860	
RCT-SC-80/50-250/5-1-0.5	2617817	0,5	250	5	1	1120	82/52
RCT-SC-80/50-250/5-2.5-1	2617818	1	250	5	2,5	1120	
RCT-SC-80/50-300/5-1.5-0.5	2617819	0,5	300	5	1,5	1120	
RCT-SC-80/50-300/5-2.5-1	2617820	1	300	5	2,5	1150	
RCT-SC-80/50-400/5-1.5-0.5	2617821	0,5	400	5	1,5	1100	
RCT-SC-80/50-400/5-2.5-1	2617822	1	400	5	2,5	1100	
RCT-SC-80/50-500/5-2.5-0.5	2617823	0,5	500	5	2,5	1170	
RCT-SC-80/50-500/5-5-1	2617824	1	500	5	5	1170	
RCT-SC-80/50-600/5-2.5-0.5	2617825	0,5	600	5	2,5	1190	
RCT-SC-80/50-600/5-5-1	2617826	1	600	5	5	1190	
RCT-SC-80/50-750/5-2.5-0.5	2617827	0,5	750	5	2,5	1200	
RCT-SC-80/50-750/5-7.5-1	2617828	1	750	5	7,5	1200	
RCT-SC-80/50-800/5-2.5-0.5	2617829	0,5	800	5	2,5	1190	
RCT-SC-80/50-800/5-7.5-1	2617830	1	800	5	7,5	1190	
RCT-SC-80/50-1000/5-5-0.5	2617831	0,5	1000	5	5	1120	
RCT-SC-80/50-1000/5-10-1	2617832	1	1000	5	10	1120	
RCT-SC-120/80-500/5-2.5-0.5	2617833	0,5	500	5	2,5	1860	122/82
RCT-SC-120/80-500/5-3.75-1	2617834	1	500	5	3,75	1860	
RCT-SC-120/80-600/5-2.5-0.5	2617835	0,5	600	5	2,5	1860	
RCT-SC-120/80-600/5-5-1	2617836	1	600	5	5	1860	
RCT-SC-120/80-750/5-2.5-0.5	2617837	0,5	750	5	2,5	1940	
RCT-SC-120/80-750/5-2.5-1	2617838	1	750	5	2,5	1940	
RCT-SC-120/80-800/5-2.5-0.5	2617839	0,5	800	5	2,5	1910	
RCT-SC-120/80-800/5-7.5-1	2617840	1	800	5	7,5	1910	
RCT-SC-120/80-1000/5-5-0.5	2617841	0,5	1000	5	5	1880	
RCT-SC-120/80-1000/5-10-1	2617842	1	1000	5	10	1880	
RCT-SC-120/80-1200/5-7.5-0.5	2617843	0,5	1200	5	7,5	1940	
RCT-SC-120/80-1200/5-15-1	2617844	1	1200	5	15	1940	
RCT-SC-120/80-1250/5-7.5-0.5	2617845	0,5	1250	5	7,5	1190	
RCT-SC-120/80-1250/5-15-1	2617846	1	1250	5	15	1190	
RCT-SC-120/80-1500/5-7.5-0.5	2617847	0,5	1500	5	7,5	1190	
RCT-SC-120/80-1500/5-10-1	2617848	1	1500	5	10	1190	
RCT-SC-120/80-1600/5-10-0.5	2617849	0,5	1600	5	10	1990	
RCT-SC-120/80-1600/5-20-1	2617850	1	1600	5	20	1990	
RCT-SC--160/80-1000/5-10-0.5	2617851	0,5	1000	5	10	2170	162/82
RCT-SC-160/80-1000/5-15-1	2617852	1	1000	5	15	2170	
RCT-SC-160/80-1200/5-10-0.5	2617853	0,5	1200	5	10	2250	
RCT-SC-160/80-1250/5-10-0.5	2617854	0,5	1250	5	10	2260	
RCT-SC-160/80-1250/5-15-1	2617855	1	1250	5	15	2260	
RCT-SC-160/80-1500/5-15-0.5	2617856	0,5	1500	5	15	2390	
RCT-SC-160/80-1500/5-20-1	2617857	1	1500	5	20	2390	
RCT-SC-160/80-2000/5-15-0.5	2617858	0,5	2000	5	15	2400	
RCT-SC-160/80-2000/5-20-1	2617859	1	2000	5	20	2400	
RCT-SC-160/80-2500/5-15-0.5	2617860	0,5	2500	5	15	2400	
RCT-SC-160/80-2500/5-20-1	2617861	1	2500	5	20	2400	
RCT-SC--160/80-3000/5-15-0.5	2617862	0,5	3000	5	15	2490	
RCT-SC-160/80-3000/5-20-1	2617863	1	3000	5	20	2490	
RCT-SC-160/80-4000/5-15-0.5	2617864	0,5	4000	5	15	2600	
RCT-SC-160/80-4000/5-20-1	2617865	1	4000	5	20	2600	
RCT-SC-160/80-5000/5-15-0.5	2617866	0,5	5000	5	15	2700	
RCT-SC-160/80-5000/5-20-1	2617867	1	5000	5	20	2700	
RCT-SC-160/80-6000/5-15-0.5	2617868	0,5	6000	5	15	2930	
RCT-SC-160/80-6000/5-20-1	2617869	1	6000	5	20	2930	

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Ordering codes



PRECAUTIONS:

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.