

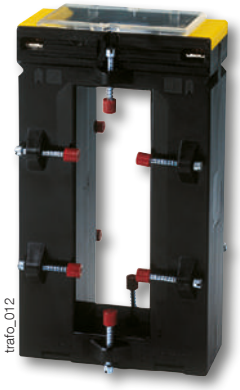
Current transformers

Measurement devices

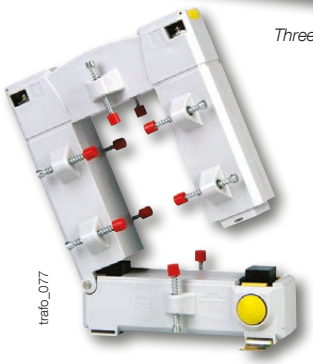
from 5 to 5000 A



Three-phase CT



Bar-through CT



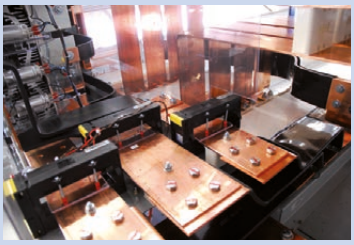
Split-core transformer



Cable-through CT

The solution for

- Industry
- Office buildings



Strong points

- An adapted accuracy class
- A wide range of ratings and dimensions
- Quick and easy to mount

Conformity to standards

- IEC 61869-2
- IEC 61439-1

Available on request

SOCOMEC also offer customised solutions:

- 1 A secondary
- Double or triple primary ratio
- Voltage transformer
- Summation CTs

Function

SOCOMEC **current transformers** deliver to the secondary a standard current proportional to the primary current and adapted to the rating of the associated device. They are equipped as standard with removable terminal covers and double terminals allowing the secondary to be short-circuited without any risk.

They are mounted using two screw-on metal brackets or, in certain cases, by a clip-on DIN-rail fastener. The connections are made by screws or by fast-on terminals.

- Accuracy class: 0.2s — 0.5 or 1.
- Dielectric quality: 3 kV — 50 Hz — 1 min.
- Operating frequency: 50 — 60 Hz.
- Permanent overload: 1.2 In.
- Insulation class: E (120 °C).

Advantages

An adapted accuracy class

In order to get the best of your DIRIS multifunction meters and COUNTIS energy meters, we can provide current transformers with the following accuracy classes: 0.2s; 0.5; 1 or 3.

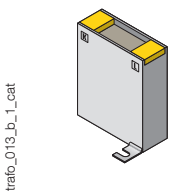
A wide range of ratings and dimensions

Your measurement process can be optimised whatever your needs in terms of ratings, space requirements, conductor sizing or accuracy class. A wide range of combinations are available in our standard range with specific versions available on request (other ratios, tropicalisation and specific frequency, class or burden).

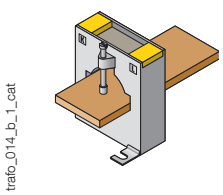
Quick and easy to mount

Our current transformers are adapted to any type of mounting: edgewise or flat mounting, DIN-rail or back-plate mounting. Implementation is easy and rapid.

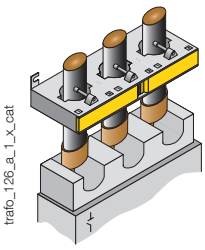
Composition of the range



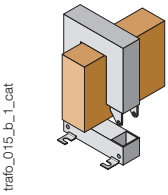
Primary wound moulded case CT



Bar or cable-through CT



Bar or cable-through three-phase CT



Bar-through split-core CT

socomec Innovative Power Solutions

Primary wound moulded case CT

References

Primary	Secondary[1]	TRB 60 Class 0.5	TRB 60 Reference	TRB 70 Class 0.5	TRB 70 Reference	T2RB 115 Class 0.2s	T2RB 115 Reference	TRB 135 Class 0.5	TRB 135 Reference
5 A	5 A	2.5 VA	192T **0505**	10 VA	192T **0521**				
10 A	5 A	2.5 VA	192T **0510**	10 VA	192T **0522**				
15 A	5 A			10 VA	192T **0523**				
20 A	5 A			10 VA	192T **0524**				
25 A	5 A			10 VA	192T **0525**	7.5 VA	192U **0402**	10 VA	192T **0603**
30 A	5 A			5 VA	192T **0530**	7.5 VA	192U **0403**	10 VA	192T **0607**
40 A	5 A			5 VA	192T **0541**	7.5 VA	192U **0404**	10 VA	192T **0604**
50 A	5 A			5 VA	192T **0551**	7.5 VA	192U **0405**	10 VA	192T **0605**
60 A	5 A					7.5 VA	192U **0406**	10 VA	192T **0606**
75 A	5 A					7.5 VA	192U **0407**	10 VA	192T **0608**
80 A	5 A					7.5 VA	192U **0408**	10 VA	192T **0609**
100 A	5 A							10 VA	192T **0610**
125 A	5 A					7.5 VA	192U **0412**	10 VA	192T **0612**
150 A	5 A					7.5 VA	192U **0415**	10 VA	192T **0615**

(1) Secondary 1 A: on request.

Accessories

Accessories	TRB 60 Reference	TRB 70 Reference		TRB 135 Reference
DIN-rail mounting	192T **0003**	192T **0005** [1]		
Sealable cover	192T **0105**	192T **0103**		192T **0101** [2]

(1) Not available for 50 A rating
(2) For 125 and 150 A ratings, use reference 192T 0103.

CT Plug-in transducer (CEA-VA)

Power supply	Output	TRB 60 Reference	TRB 70 Reference
Self-supplied	0-20 mA / 0-10 VDC	192Y **0015**	192Y **0025** [1]
230 VAC	0-20 mA / 0-10 VDC	192Y **0215**	192Y **0225** [1]
24 VDC	0-20 mA / 0-10 VDC	192Y **0115**	192Y **0125** [1]

(1) Not available for ratings 40 and 50 A

CT Plug-in transducer (CEA-VA4)

Power supply	Output	TRB 60 Reference	TRB 70 Reference
230 VAC	4-20 mA / 0-10 VDC	192T **0255**	192Y **0265** [1]
24 VDC	4-20 mA / 0-10 VDC	192Y **0155**	192Y **0165** [1]

(1) Not available for ratings 40 and 50 A

Certificate of performance

Each class 0.2s current transformer is supplied with an individual certificate of performance, attesting to its accuracy.

Cable-through CT

References

		TCA 14		TCA 21			TCA 22		T2CA 225	
Primary	Secondary(1)	Class 1	Reference	Class 1	Class 0.5	Reference	Class 1	Reference	Class 0.2s	Reference
40 A	5 A	1	192T **1404**							
50 A	5 A	1	192T **1405**							
60 A	5 A	1.5	192T **1406**	1 VA		192T **2006**				
75 A	5 A	1.5	192T **1407**	1.5 VA		192T **2007**				
80 A	5 A			1.5 VA		192T **2008**				
100 A	5 A	2.5	192T **1410**		1.5 VA	192T **2010**	1 VA	192T **2022**		
125 A	5 A	2.5	192T **1412**		1.5 VA	192T **2012**				
150 A	5 A	2.5	192T **1415**		1.5 VA	192T **2015**	1.5 VA	192T **2023**	1.5 VA	192U **2215**
200 A	5 A				2.5 VA	192T **2020**	2.5 VA	192T **2024**	2.5 VA	192U **2220**
250 A	5 A				2.5 VA	192T **2016**	3.75 VA	192T **2025**	5 VA	192U **2225**
300 A	5 A				2.5 VA	192T **2017**	3.75 VA	192T **2030**	5 VA	192U **2230**
400 A	5 A						5 VA	192T **2034**	5 VA	192U **2240**
500 A	5 A						5 VA	192T **2035 (2)**	10 VA	192U **2250**
600 A	5 A						5 VA	192T **2036 (2)**	10 VA	192U **2260**

(1) Secondary 1 A: on request. *(2) Dimensions of T2CA 225*

Accessories

Accessories	TCA 14 Reference	TCA 21 Reference	TCA 22 Reference	T2CA 225 Reference
DIN-rail mounting	192T **0006**	192T **0006**	192T **0007**	192T **0003**
Guide tube Ø 8.5 mm (1)		192T **0020**		
Guide tube Ø 12.5 mm(1)		192T **0021**	192T **0023**	
Guide tube Ø 16.5 mm(1)			192T **0024**	
Sealable cover				192T **0105**

(1) For centralising cables within the CT aperture.

Bar or cable-through CT

References

Primary	Secondary(1)	TCB 17-20 Class 1	TCB 17-20 Reference	TCB 26-30 Class 0.5	TCB 26-30 Class 1	TCB 26-30 Reference	T2CB 26-30 Class 0.2s	T2CB 26-30 Reference	TCB 28-30 Class 0.5	TCB 28-30 Class 1	TCB 28-30 Reference
50 A	5 A				1 VA	192T **2305**					
60 A	5 A	1 VA	192T **2106**		1 VA	192T **2306**					
75 A	5 A	1 VA	192T **2107**		1.5 VA	192T **2307**					
80 A	5 A	1.25 VA	192T **2108**		1.5 VA	192T **2308**				1.25 VA	192T **2408**
100 A	5 A	1.5 VA	192T **2110**	1.5 VA		192T **2310**				1.5 VA	192T **2410**
125 A	5 A	1.5 VA	192T **2112**	1.5 VA		192T **2312**				2.5 VA	192T **2412**
150 A	5 A	2.5 VA	192T **2115**	1.5 VA		192T **2315**	1.5 VA	192U **2315**		2.5 VA	192T **2415**
160 A	5 A	2.5 VA	192T **2116**								
200 A	5 A	2.5 VA	192T **2120**	2.5 VA		192T **2320**	2.5 VA	192U **2320**	2.5 VA		192T **2420**
250 A	5 A	5 VA	192T **2125**	5 VA		192T **2325**	2.5 VA	192U **2325**	2.5 VA		192T **2425**
300 A	5 A	5 VA	192T **2130**	5 VA		192T **2330**	5 VA	192U **2330**	2.5 VA		192T **2430**
400 A	5 A	5 VA	192T **2140**	5 VA		192T **2340**	5 VA	192U **2340**	5 VA		192T **2440**
500 A	5 A			5 VA		192T **2350**	5 VA	192U **2350**	5 VA		192T **2450**
600 A	5 A			5 VA		192T **2360**	5 VA	192U **2360**			
750 A	5 A			5 VA		192T **2375**	5 VA	192U **2375**			

(1) Secondary 1 A: on request.

Primary	Secondary(1)	TCB 26-40 Class 1	TCB 26-40 Reference	TCB 32-40 Class 0.5	TCB 32-40 Class 1	TCB 32-40 Reference	T2CB 32-40 Class 0.2s	T2CB 32-40 Reference
75 A	5 A				1.5 VA	192T **4007**		
100 A	5 A	1.5 VA	192T **3210**	1.5 VA		192T **4010**		
125 A	5 A	2.5 VA	192T **3212**	1.5 VA		192T **4012**		
150 A	5 A	2.5 VA	192T **3215**	2.5 VA		192T **4015**		
160 A	5 A	2.5 VA	192T **3216**					
200 A	5 A	2.5 VA	192T **3220**	5 VA		192T **4020**	2.5 VA	192U **4020**
250 A	5 A	2.5 VA	192T **3225**	5 VA		192T **4025**	5 VA	192U **4025**
300 A	5 A	5 VA	192T **3230**	10 VA		192T **4030**	5 VA	192U **4030**
400 A	5 A	5 VA	192T **3240**	10 VA		192T **4040**	5 VA	192U **4040**
500 A	5 A	5 VA	192T **3250**	10 VA		192T **4050**	5 VA	192U **4050**
600 A	5 A	5 VA	192T **3260**	10 VA		192T **4060**	5 VA	192U **4060**
750 A	5 A	10 VA	192T **3275**	10 VA		192T **4075**	5 VA	192U **4075**
800 A	5 A			10 VA		192T **4080**		
1000 A	5 A			10 VA		192T **4090**		

(1) Secondary 1 A: on request.

Accessories

Accessories	TCB 17-20 Reference	TCB 26-30 Reference	TCB 26-40 Reference	TCB 32-40 Reference
DIN-rail mounting	192T **0007**	192T **0003**	192T **0003**	192T **0005**
Sealable cover		192T **0105**	192T **0105**	192T **0103**

CT Plug-in transducer (CEA-VA)

Power supply	Output	TCB 26-30 Reference	TCB 26-40 Reference	TCB 32-40 Reference
Self-supplied	0-20 mA / 0-10 VDC	192Y **0015**	192Y **0015**	192Y **0035**
230 VAC	0-20 mA / 0-10 VDC	192Y **0215**	192Y **0215**	192Y **0235**
24 VDC	0-20 mA / 0-10 VDC	192Y **0115**	192Y **0115**	192Y **0135**

CT Plug-in transducer (CEA-VA4)

Power supply	Output	TCB 26-30 Reference	TCB 26-40 Reference	TCB 32-40 Reference
230 VAC	4-20 mA / 0-10 VDC	192T **0255**	192T **0255**	192Y **0275**
24 VDC	4-20 mA / 0-10 VDC	192Y **0155**	192Y **0155**	192Y **0175**

Bar or cable-through CT (continued)

References

Primary	Secondary[1]	TCB 44-50 Class 0.5	TCB 44-50 Reference	TCB 44-63 Class 0.5	TCB 44-63 Reference	T2CB 44-63 Class 0.2s	T2CB 44-63 Reference
150 A	5 A	1.5 VA	192T **5015**				
200 A	5 A	2.5 VA	192T **5020**	1.5 VA	192T **6420**		
250 A	5 A	5 VA	192T **5025**	1.5 VA	192T **6425**		
300 A	5 A	5 VA	192T **5030**	2.5 VA	192T **6430**	5 VA	192U **6430**
400 A	5 A	10 VA	192T **5040**	5 VA	192T **6440**	5 VA	192U **6440**
500 A	5 A	10 VA	192T **5050**	10 VA	192T **6450**	10 VA	192U **6450**
600 A	5 A	10 VA	192T **5060**	10 VA	192T **6460**	10 VA	192U **6460**
750 A	5 A	10 VA	192T **5075**	10 VA	192T **6475**	10 VA	192U **6475**
800 A	5 A	15 VA	192T **5080**	10 VA	192T **6480**		
1000 A	5 A	15 VA	192T **5090**	15 VA	192T **6490**	10 VA	192U **6490**
1200 A	5 A	15 VA	192T **5092**	15 VA	192T **6492**	10 VA	192U **6492**
1250 A	5 A	15 VA	192T **5095**	15 VA	192T **6493**	10 VA	192U **6493**
1500 A	5 A			15 VA	192T **6495**	10 VA	192U **6495**
1600 A	5 A			15 VA	192T **6494**		

(1) Secondary 1 A: on request.

Primary	Secondary[1]	TCB 55-80 Class 0.5	TCB 55-80 Reference	TCB 85-100 Class 0.5	TCB 85-100 Reference	TCB 100-125 Class 0.5	TCB 100-125 Reference
400 A	5 A	2.5 VA	192T **8140**				
500 A	5 A	5 VA	192T **8150**				
600 A	5 A	5 VA	192T **8160**				
750 A	5 A	10 VA	192T **8175**	2.5 VA	192T **9675**		
800 A	5 A	10 VA	192T **8180**	5 VA	192T **9680**		
1000 A	5 A	15 VA	192T **8190**	10 VA	192T **9690**	5 VA	192T **9590**
1200 A	5 A	15 VA	192T **8192**	10 VA	192T **9692**		
1250 A	5 A	15 VA	192T **8193**	15 VA	192T **9693**	10 VA	192T **9593**
1500 A	5 A	15 VA	192T **8195**	15 VA	192T **9695**	15 VA	192T **9595**
1600 A	5 A	15 VA	192T **8194**	15 VA	192T **9694**		
2000 A	5 A	15 VA	192T **8196**	30 VA	192T **9696**	30 VA	192T **9596**
2500 A	5 A			30 VA	192T **9697**	30 VA	192T **9597**
3000 A	5 A			30 VA	192T **9698**	30 VA	192T **9598**

(1) Secondary 1 A: on request.

Accessories

Accessories	TCB 44-50 Reference	TCB 44-63 Reference	TCB 55-80 Reference	TCB 85-100 Reference	TCB 100-125 Reference
Sealable cover	192T **0102**	192T **0102**	192T **0102**	192T **0106**	192T **0106**

CT Plug-in transducer (CEA-VA)

Power supply	Output	TCB 44-50 Reference	TCB 44-63 Reference	TCB 55-80 Reference
Self-supplied	0-20 mA / 0-10 VDC		192Y **0045**	192Y **0045**
230 VAC	0-20 mA / 0-10 VDC		192Y **0245**	192Y **0245**
24 VDC	0-20 mA / 0-10 VDC		192Y **0145**	192Y **0145**

CT Plug-in transducer (CEA-VA4)

Input	Output	TCB 44-50 Reference	TCB 44-63 Reference	TCB 55-80 Reference
230 VAC	4-20 mA / 0-10 VDC		192Y **0285**	192Y **0285**
24 VDC	4-20 mA / 0-10 VDC		192Y **0185**	192Y **0185**

Bar-through CT

References

Primary	Secondary	TBA 60 Class 0.5	TBA 60 Class 1	TBA 60 Reference	TBA 80 Class 0.5	TBA 80 Reference	TBA 100 Class 0.5	TBA 100 Reference	T2BA 100 Class 0.2s	T2BA 100 Reference
200 A	5 A		2.5 VA	192T **7020**						
250 A	5 A	2.5 VA		192T **7025**						
300 A	5 A	2.5 VA		192T **7030**	2.5 VA	192T **7530**				
400 A	5 A	5 VA		192T **7040**	5 VA	192T **7540**				
500 A	5 A	5 VA		192T **7050**	5 VA	192T **7550**				
600 A	5 A	10 VA		192T **7060**	5 VA	192T **7560**	5 VA	192T **8060**		
750 A	5 A	10 VA		192T **7075**	5 VA	192T **7575**	5 VA	192T **8075**		
800 A	5 A	10 VA		192T **7080**	10 VA	192T **7580**	5 VA	192T **8080**		
1000 A	5 A	15 VA		192T **7090**	15 VA	192T **7590**	5 VA	192T **8090**		
1200 A	5 A	15 VA		192T **7092**	15 VA	192T **7592**	10 VA	192T **8092**	5 VA	192U **8092**
1250 A	5 A	15 VA		192T **7093**	15 VA	192T **7593**	10 VA	192T **8093**	5 VA	192U **8093**
1500 A	5 A	15 VA		192T **7095**	15 VA	192T **7595**	15 VA	192T **8095**	5 VA	192U **8095**
1600 A	5 A	15 VA		192T **7094**	15 VA	192T **7594**	15 VA	192T **8094**		
2000 A	5 A				15 VA	192T **7596**	15 VA	192T **8096**	5 VA	192U **8096**
2500 A	5 A						30 VA	192T **8097**	10 VA	192U **8097**
3000 A	5 A						30 VA	192T **8098** (1)	10 VA	192U **8098**
4000 A	5 A						30 VA	192T **8099** (1)		

(1) Dimensions are different for TBA 100 with 3000 and 4000 A primary.

Primary	Secondary	TBA 103 Class 0.5	TBA 103 Reference	T2BA 103 Class 0.2s	T2BA 103 Reference	TBA 127 Class 0.5	TBA 127 Reference	T2BA 127 Class 0.2s	T2BA 127 Reference
400 A	5 A	2.5 VA	192T **9340**			2.5 VA	192T **9740**		
500 A	5 A	2.5 VA	192T **9350**			2.5 VA	192T **9750**		
600 A	5 A	2.5 VA	192T **9360**			2.5 VA	192T **9760**		
750 A	5 A	2.5 VA	192T **9375**			2.5 VA	192T **9775**		
800 A	5 A	5 VA	192T **9380**			5 VA	192T **9780**		
1000 A	5 A	10 VA	192T **9390**	5 VA	192U **9390**	10 VA	192T **9790**		
1200 A	5 A	10 VA	192T **9392**	5 VA	192U **9392**	10 VA	192T **9792**	5 VA	192U **9792**
1250 A	5 A	10 VA	192T **9393**	5 VA	192U **9393**	10 VA	192T **9793**	5 VA	192U **9793**
1500 A	5 A	15 VA	192T **9395**	5 VA	192U **9395**	15 VA	192T **9795**	5 VA	192U **9795**
1600 A	5 A	10 VA	192T **9394**			15 VA	192T **9794**		
2000 A	5 A	15 VA	192T **9396**			15 VA	192T **9796**	5 VA	192U **9796**
2500 A	5 A					15 VA	192T **9797**		
3000 A	5 A					25 VA	182T **9798 (1)**		
4000 A	5 A					30 VA	182T **9799 (1)**		

(1) Replacement model TRA 127 for this rating.

Accessories

Accessories	TBA 60 Reference	TBA 80 Reference	TBA 100 Reference	T2BA 100 Reference	TBA 103 Reference	T2BA 103 Reference	TBA 127 Reference	T2BA 127 Reference
Sealable cover	192T **0102**		192T **0102**	192T **0102**			192T **0102**	192T **0102**

CT Plug-in transducer (CEA-VA)

Power supply	Output	TBA 100 Reference
Self-supplied	0-20 mA / 0-10 VDC	192Y **0045**
230 VAC	0-20 mA / 0-10 VDC	192Y **0245**
24 VDC	0-20 mA / 0-10 VDC	192Y **0145**

CT Plug-in transducer (CEA-VA4)

Power supply	Output	TBA 100 Reference
230 VAC	4-20 mA / 0-10 VDC	192Y **0285**
24 VDC	4-20 mA / 0-10 VDC	192Y **0185**

Three-phase bar or cable-through CT

References

Primary	Secondary[1]	TCB3 18-20 Class 1	TCB3 18-20 Reference	TCB3 22-30 Class 1	TCB3 22-30 Reference
3 x 100 A	3 x 5 A	1 VA	192T **3310**		
3 x 150 A	3 x 5 A	1.25 VA	192T **3315**		
3 x 200 A	3 x 5 A	1.5 VA	192T **3320**		
3 x 250 A	3 x 5 A	2.5 VA	192T **3325**	2.5 VA	192T **3425**
3 x 300 A	3 x 5 A			3.75 VA	192T **3430**
3 x 400 A	3 x 5 A			5 VA	192T **3440**
3 x 500 A	3 x 5 A			5 VA	192T **3450**
3 x 600 A	3 x 5 A			5 VA	192T **3460**

(1) Secondary 1 A: on request.

Primary	Secondary[1]	TCA 13 — 3 P Class 1	TCA 13 — 3 P Reference
3 x 50 A	5 A	1 VA	192T **1905**
3 x 60 A	5 A	1.25 VA	192T **1906**
3 x 75 A	5 A	1.5 VA	192T **1907**
3 x 80 A	5 A	1.5 VA	192T **1908**
3 x 100 A	5 A	2.5 VA	192T **1910**
3 x 125 A	5 A	2.5 VA	192T **1912**
3 x 150 A	5 A	2.5 VA	192T **1915**
3 x 160 A	5 A	2.5 VA	192T **1916**

(1) Secondary 1 A: on request.

Split-core CT

References

		TO 23			TO 58			TO 812			TO 816	
Primary	Secondary	Class 1	Class 3	Reference	Class 0.5	Class 1	Reference	Class 0.5	Class 1	Reference	Class 0.5	Reference
100 A	5 A		1.25 VA	192T **4601**								
150 A	5 A		1.5 VA	192T **4602**								
200 A	5 A		2.5 VA	192T **4603**								
250 A	5 A	1.5 VA		192T **4604**		1.5 VA	192T **4625**		1.5 VA	192T **4725**		
300 A	5 A	3.75 VA		192T **4605**		2.5 VA	192T **4630**		2.5 VA	192T **4730**		
400 A	5 A	5 VA		192T **4606**	1 VA		192T **4640**		2.5 VA	192T **4740**		
500 A	5 A				2.5 VA		192T **4650**	2.5 VA		192T **4750**		
600 A	5 A				2.5 VA		192T **4660**	2.5 VA		192T **4760**		
750 A	5 A				2.5 VA		192T **4675**	2.5 VA		192T **4775**		
800 A	5 A				2.5 VA		192T **4680**	2.5 VA		192T **4780**		
1000 A	5 A				5 VA		192T **4610**	5 VA		192T **4710**	10 VA	192T **4810**
1250 A	5 A							7.5 VA		192T **4712**	10 VA	192T **4812**
1500 A	5 A							7.5 VA		192T **4715**	10 VA	192T **4815**
1600 A	5 A										10 VA	192T **4814**
2000 A	5 A										10 VA	192T **4820**
2500 A	5 A										10 VA	192T **4825**
3000 A	5 A										15 VA	192T **4830**
4000 A	5 A										15 VA	192T **4840**
5000 A	5 A										15 VA	192T **4850**

Summation CT

Reference

		BSA 02	BSA 03	BSA 04
Primary	Secondary	Reference	Reference	Reference
5 + 5/5 A	5 A	192T **0802**		
5A + 5+ 5/5	5 A		192T **0803**	
5 + 5 + 5 + 5/5 A	5 A			192T **0904**