

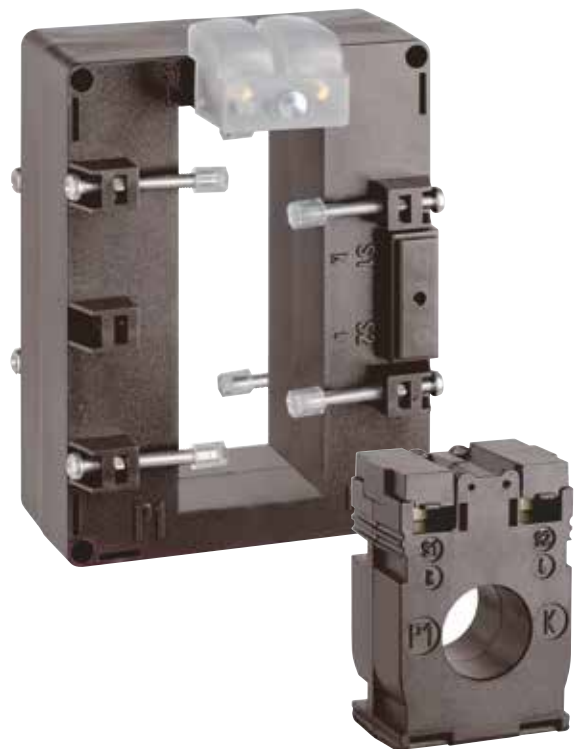


LOW VOLTAGE TRANSFORMERS

A complete range of amperometric and voltmeter transformers

To choose the CT properly you need to know:

- System rated current
This is used to determine the transformer's primary current, e.g.:
System rated current: 425A = CT 500/5A
- Power bar/cable size
This makes it possible to choose a CT with a window that is large enough to pass the phase bar/ cord through, the tendency is always to choose a slightly bigger window so as to have a little play that is useful during installation, e.g.:
Cord of 120mm² (max. outer diam. 21.5mm) = I choose model TA327 with $\varnothing 27$ mm hole.
- Measurement class
Classes 0.5/1 recommended for measuring power, electricity and $\cos\phi$ Class 3 to be used for current measures on ammeters only
- Performance (VA)





**CT with cable/
passing bar
(Primary currents:
40...8000A)**



**CT with primary
winding
(Primary currents:
5...600A)**



**Open core CT
(Primary currents:
60...5000A)**

This represents the maximum load that can be connected to the secondary terminals of the CT.

The load consists of the self consumption of the measurement instrument + adsorption of the cables connecting the CT and the instrument. This latter depends on the length and cross-section of the cable. For the functioning of a certain measurement class, the maximum load must always be lower or equal to the performance/ rated class of the CT.

The following is a table for calculating the absorption of the cables connecting the CT and the instrument.

Power absorbed (VA) by the cables connecting the CT and the instrument		
cross section mm ² copper	*VA per meter of bipolar cable at 20°C	
	secondary 5A	secondary 1A
1	1	0.04
1.5	0.685	0.0274
2.5	0.41	0.0164
4	0.254	0.0102
6	0.169	0.0068
10	0.0975	0.0039
16	0.062	0.0025











* The VA absorbed by the connection cables rises 4% for every 10% variation in the temperature.

CT/5A or CT/1A?

From the table shown above, it can be seen that using the same cross section the CT/1A absorbs 25 times less than the CT/5A because of the very long sections ($\geq 20m$). You are advised to choose a CT/1A so as to reduce the section and relative cost of the cables as well as ensuring more precise reading.





Current transformers for low voltage network - MEASURE

table of choiche

PASSING CABLE/BUSBARS PRIMARY TRANSFORMERS																											
																											
Model	TAIBB	TA221	TA327	TA426	TA432	TA540	TAC80	TAC110	TAS64	TAS81																	
Width (mm)	44	49.5	56	60	70	70	125	165	90	100																	
Height (mm)	65	80	80	85	95	95	132	170	130	145																	
Cables (mm)	Ø21	Ø21	Ø27	Ø26	Ø32	Ø40	Ø80	Ø110																			
Window (mm)	16x12.5	20.5x10.5	25.5x15.5 32.5x10.5	32.5x15.5 40.5x12.5	25.5x25.5 32.5x20.5 40.5x10.5	40.5x20.5 50.5x12.5																	51x31 64x11	64x31 81x11			
Primary current	VA			VA			VA			VA			VA			VA			VA			VA			VA		
	cl 0.5	cl. 1	cl.3	cl 0.5	cl. 1	cl.3	cl 0.5	cl. 1	cl.3	cl 0.5	cl. 1	cl.3	cl 0.5	cl. 1	cl.3	cl 0.5	cl. 1	cl.3	cl 0.5	cl. 1	cl.3	cl 0.5	cl. 1	cl.3	cl 0.5	cl. 1	
40A			1																								
50A			1.5			2.5			1.5																		
60A		1	2		1.5	3			2.5																		
70A		1.5	2.5		1.5	4			1.5	3																	
75A		1.5	2.5		2	4			1.5	3																	
80A		1.5	2.5		3	4			2.5	3.5																	
100A	1.5	2.5	3.5	1.5	3		1	2.5					2	5													
120A	2	3.5		2.5	4		2	3.5					2	5													
125A	2	3.5	4	2.5	4		2	3.5					2	6													
150A	3	4		4	6		3	4		1.5	3	1	3														
160A	3	4		4	6		3	5		1.5	3	1.5	3														
200A	4	5.5		6	8		4	7		2.5	4	3	5				1.5	3									
250A	5	6		8	10		6	8		3	4	3	5				2	4						2.5			
300A	6	7.5		8	10		8	10		4	6	5	8		2	4	2.5	5						3			
400A							10	12		6	8	8	10		4	6	3	5	3	5				4		2	
500A							12	15		6	8	10	12		4	6	3	5	3	5	2	4	2	4			
600A							15	20		6	8	12	15		6	8	4	6	4	6	4	6	3	5			
700A										8	10	10	12		8	10						6	8	4	6		
750A										8	10	10	12		8	10						6	8	4	6		
800A										10	12	10	12		8	12	4	6	4	6	6	8	4	6			
1000A												12	15		10	12	6	8	8	10	8	10	6	8			
1200A															12	15			8	10	10	12	8	10			
1250A																						10	12	8	10		
1500A																			10	12	10	12	10	12			
1600A																						10	12	10	12		
2000A																								10	12		
2500A																								10	12		
3000A																											
3200A																											
4000A																											
5000A																											
6000A																											
8000A																											







Current transformers for low voltage network - MEASURE

table of choiche

WINDING PRIMARY TRANSFORMERS												
												
Model	TAQ2M		TAQ2L		TAQ6M		TAQ6L		TAQ10		TAQ20	
Width (mm)	56		56		56		56		85		110	
Height (mm)	80		80		80		80		102.5		140	
Primary current	VA		VA		VA		VA		VA		VA	
	cl. 0.5	cl. 1	cl 0.5	cl. 1	cl 0.5	cl. 1	cl 0.5	cl. 1	cl 0.5	cl. 1	cl 0.5	cl. 1
5A	2	4			6	7.5			10	15	20	40
10A	2	4			6	7.5			10	15	20	40
15A	2	4			6	7.5			10	15	20	40
20A	2	4			6	7.5			10	15	20	40
25A	2	4			6	7.5			10	15	20	40
30A	2	4			6	7.5			10	15	20	40
40A	2	4			6	7.5			10	15	20	40
50A			2	4			6	7.5	10	15	20	40
60A			2	4			6	7.5	10	15	20	40
70A									10	15	20	40
75A			2	4			6	7.5	10	15	20	40
80A			2	4			6	7.5	10	15	20	40
100A			2	4					10	15	20	40
120A									10	15	20	40
125A									10	15	20	40
150A									10	15	20	40
160A									10	15	20	40
200A									10	15	20	40
250A											20	40
300A											20	40
400A											20	40
500A											20	40
600A											20	40

Current transformers for low voltage network - MEASURE

table of choiche

OPEN-CORE TRANSFORMERS																
																
Model	TRA11		TRA15		TRA230		TRA580		TRA812		TRA816					
Width (mm)	235		275		92		120		150		184					
Height (mm)	219		259		110		150		190		245					
Cables (mm)	Ø110		Ø150													
Window (mm)					20x30		50.5x80.5		80.5x120.5		80x160					
Primary current	VA			VA			VA			VA			VA			
	cl 0.5	cl. 1	cl. 3	cl 0.5	cl. 1	cl. 3	cl 0.5	cl. 1	cl. 3	cl 0.5	cl. 1	cl 0.5	cl. 1	cl. 3	cl 0.5	cl. 1
60A									1							
100A			3			3			1.5							
120A			3			3										
150A			5			5		1.5	2.5							
200A			5			5	1	2.5								
250A		5			5		1.5	3		1	2					
300A		5			5		1.5	4		1.5	3					
400A	5				5		2.5	6		1.5	3					
500A	8				8					2.5	5		4	12		
600A	15				15					2.5	5		5	14		
800A	15				15					3	7	3	7			
1000A	15				15					5	10	5	10			
1200A	20				20							6	11			
1500A	20				20							8	15			
2000A	25				25										15	20
2500A					25										15	20
3000A					25										20	25
4000A					30										20	25
5000A					30										20	25

CURRENT SUMMATION TRANSFORMERS					
					
Model	BSA02		BSA03		BTA2
Width (mm)	70		70		121
Height (mm)	93		93		124
Primary current	VA		VA		VA
	cl 0.5	cl. 1	cl 0.5	cl. 1	cl 0.5
5+5A	10	15			40
5+5+5A			10	15	40
5+5+5+5A					40
5+5+5+5+5A					15
5+5+5+5+5+5A					15
1+1A	10	15			40
1+1+1A			10	15	40
1+1+1+1A					40
1+1+1+1+1A					15
1+1+1+1+1+1A					15

Current transformers for low voltage network - PROTECTION





table of choiche




PASSING CABLE/BUSBARS PRIMARY TRANSFORMERS																	
Model	TAS63P	TAS80	TAS80P			TAS102BP		TAS125		TAS125P							
Width (mm)	100	124	124			135 (a) 129 (b)		182		182							
Height (mm)	117.5	136	136			129 (a) 135 (b)		193		193							
Window (mm)	41x21 51x20 64x19	82x32	82x32			54x102 (a) 102x54 (b)		127x54		127x54							
Primary current	VA		VA		VA				VA		VA		VA				
	cl. 5P5	cl. 5P10	cl. 5P5	cl. 5P10	cl. 5P5	cl. 5P10	cl. 5P15	cl. 5P20	cl. 5P5	cl. 5P10	cl. 5P5	cl. 5P10	cl. 5P5	cl. 5P10	cl. 5P15	cl. 5P20	
250A	2.5	1															
300A	3.5	1.2	6	2.5	8	4	2.5	1.5									
400A	4	1.5	7	2.5	10	5	3	2			6	3	12	6	3.5	2.5	
500A	5	1.5	10	3	12	6	4	2.5			10	3	15	7	4	3	
600A	6	2	10	4	15	7	4.5	3			10	5	20	10	5	4	
700A	7	2	10	4	16	8	4.5	3			10	5	20	10	6	4	
750A	7	2	10	4	20	9	5	3			10	5	25	10	7	5	
800A	7	1.5	10	4	20	8	4.5	2.5	10	4	15	5	25	10	7	5	
1000A	7	1.5	15	4	25	10	6	3	12	5	15	5	30	15	8	6	
1200A	10	1.5	20	5	30	12	6	3	12	5	20	5	35	15	8	6	
1250A	10	2	20	5	30	12	6	3	12	5	20	5	35	15	8	6	
1500A	10	1.5	25	5	35	12	5		15	6	20	5	40	20	10	6	
1600A	10	1.5	25	5	35	12	5		15	6	20	5	40	20	10	6	
2000A			30	6	40	12	3		20	6	25	5	50	20	10	4	
2500A			35	6	45	10			20	6	30	5	60	20	10	3	
3000A									20	4	40	5	80	25	10	3	
4000A											50	5	100	30	15	3	
5000A																	
6000A																	
8000A																	

WINDING PRIMARY TRANSFORMERS				
Model	TAQ10P	TAQ20P		
Width (mm)	85	110		
Height (mm)	102.5	140		
Primary current	VA		VA	
	cl 5P5	cl. 5P10	cl 5P5	cl. 5P10
5A	4	2	8	4
10A	4	2	8	4
15A	4	2	8	4
20A	4	2	8	4
25A	4	2	8	4
30A	4	2	8	4
40A	4	2	8	4
50A	4	2	8	4
60A	4	2	8	4
70A	4	2	8	4
75A	4	2	8	4
80A	4	2	8	4
100A	4	2	8	4
120A	4	2	8	4
150A	3	1.5	8	4
200A	4	2	8	4
250A	4	2	8	4
300A	4	2	8	4
400A			8	4
500A			8	4
600A			8	4

Current transformers for low voltage network - ACCURACY

table of choiche

PASSING CABLE/BUSBARS PRIMARY TRANSFORMERS																								
																								
			(a)						(b)															
Model	TA327	TA432	TAS65			TAS84			TAS102			TAS127			TAS127B									
Width (mm)	56	70	90 (a) 94 (b)			96 (a) 116 (b)			98 (a) 129 (b)			99 (a) 160 (b)			125 (a) 160 (b)									
Height (mm)	80	90	94 (a) 90 (b)			116 (a) 96 (b)			129 (a) 98 (b)			160 (a) 99 (b)			160 (a) 125 (b)									
Cables (mm)	Ø27	Ø32																						
Window (mm)	25.5x15.5 32.5x10.5	25.5x25.5 32.5x20.5 40.5x10.5	32x65 (a) 65x32 (b)			34x84 (a) 84x34 (b)			38x102 (a) 102x38 (b)			38x127 (a) 127x38 (b)			54x127 (a) 127x54 (b)									
Primary current	VA			VA			VA			VA			VA			VA								
	cl. 0.2s	cl. 0.2	cl. 0.5s	cl. 0.2s	cl. 0.2	cl. 0.5s	cl. 0.2s	cl. 0.2	cl. 0.5s	cl. 0.2s	cl. 0.2	cl. 0.5s	cl. 0.2s	cl. 0.2	cl. 0.5s	cl. 0.2s	cl. 0.2	cl. 0.5s	cl. 0.2s	cl. 0.2	cl. 0.5s			
150A	1	1.5	2																					
160A	1	1.5	2																					
200A	2	2.5	3	1	1.5	2,5																		
250A	2	2.5	3	1	1.5	2,5																		
300A	2.5	4	5	1.5	2	3																		
400A	4	5	8	1.5	3	4																		
500A	6	7	10	2.5	5	5																		
600A	8	10	15	3	6	7	1	3	5															
700A				4	7	7	1,5	4	7,5															
750A				4	7	8	2	5	7,5															
800A				5	8	10	2,5	7,5	10	4	6	7												
1000A				6	10	12	10	12	15	6	7	8	3	5	6	4	6	8						
1200A							12	15	20	10	12	14	3	5	6	5	7.5	10						
1250A							12	15	20	10	12	14	3	5	6	5	7.5	10						
1500A							12	15	20	15	17,5	20	7.5	10	15	7.5	10	12.5	7.5	10	12.5			
1600A							12	15	20	15	17,5	20	7.5	10	15	7.5	10	12.5	7.5	10	12.5			
2000A							12	15	20	15	20	25	10	15	20	10	15	20	10	12.5	15			
2500A										20	25	30	15	20	25	15	20	25	12.5	15	20			
3000A													20	25	30	20	25	30	15	20	25			
3200A																				15	20	25		
4000A																				20	25	30		

WINDING PRIMARY TRANSFORMERS						
						
Model	TAQ6M	TAQ6L	TAQ10			
Type	Winding primary	Winding primary	Winding primary			
Width (mm)	56	56	85			
Height (mm)	50	80	102.5			
Primary current	VA		VA		VA	
	cl. 0.2	cl. 0.5s	cl. 0.2s	cl. 0.5s	cl. 0.2	cl. 0.5s
5A	3	5			5	10
10A	3	5			5	10
15A	3	5			5	10
20A	3	5			5	10
25A	3	5			5	10
30A	3	5			5	10
40A	3	5			5	10
50A			3	5	5	10
60A			3	5	5	10
70A					5	10
75A			3	5	5	10
80A			3	5	5	10
100A					5	10
120A					5	10
125A					5	10
150A					5	10

Voltage transformers for low voltage network

table of choice

VOLTAGE TRANSFORMERS - MEASUREMENT/PROTECTION																	
Model	BTV3	BTV6	BTV10	BTV20	BTV50	BTV100											
Width (mm)	80	120	125	140	165	180											
Height (mm)	115	100	100	100	125	125											
Profondità (mm)	96	85	85	85	103	103											
Tensioni primarie	VA		VA			VA			VA			VA			VA		
	cl. 1	cl. 0.5	cl. 1	cl. 3P	cl. 0.5	cl. 1	cl. 3P	cl. 0.5	cl. 1	cl. 3P	cl. 0.5	cl. 1	cl. 3P	cl. 0.5	cl. 1	cl. 3P	
100V	6	6	9	20	10	15	30	20	30	50	50	75	100	100	150	200	
110V	6	6	9	20	10	15	30	20	30	50	50	75	100	100	150	200	
115V	6	6	9	20	10	15	30	20	30	50	50	75	100	100	150	200	
230V	6	6	9	20	10	15	30	20	30	50	50	75	100	100	150	200	
240V	6	6	9	20	10	15	30	20	30	50	50	75	100	100	150	200	
400V	6	6	9	20	10	15	30	20	30	50	50	75	100	100	150	200	
440V	6	6	9	20	10	15	30	20	30	50	50	75	100	100	150	200	
450V	6	6	9	20	10	15	30	20	30	50	50	75	100	100	150	200	
500V	6	6	9	20	10	15	30	20	30	50	50	75	100	100	150	200	
600V	6	6	9	20	10	15	30	20	30	50	50	75	100	100	150	200	
660V	6	6	9	20	10	15	30	20	30	50	50	75	100	100	150	200	
690V	6	6	9	20	10	15	30	20	30	50	50	75	100	100	150	200	
700V								20	30	50	50	75	100	100	150	200	
800V								20	30	50	50	75	100	100	150	200	
1000V								20	30	50	50	75	100	100	150	200	
Tensioni primarie	VA		VA			VA			VA			VA			VA		
	cl. 1	cl. 0.5	cl. 1	cl. 3P	cl. 0.5	cl. 1	cl. 3P	cl. 0.5	cl. 1	cl. 3P	cl. 0.5	cl. 1	cl. 3P	cl. 0.5	cl. 1	cl. 3P	
÷ : √3	3	3	4	10	5	7	15	8	10	25	25	30	50	50	75	100	

VOLTAGE TRANSFORMERS - PRECISION						
Model	BTV6	BTV10	BTV20	BTV50	BTV100	
Width (mm)	120	125	140	165	180	
Height (mm)	100	100	100	125	125	
Profondità (mm)	85	85	85	103	103	
Tensioni primarie	VA		VA		VA	
	cl. 0.2	cl. 0.2	cl. 0.2	cl. 0.2	cl. 0.2	cl. 0.2
230V	2.5	4	8	20	40	
240V	2.5	4	8	20	40	
400V	2.5	4	8	20	40	
440V	2.5	4	8	20	40	
450V	2.5	4	8	20	40	
500V	2.5	4	8	20	40	
600V	2.5	4	8	20	40	
660V	2.5	4	8	20	40	
690V	2.5	4	8	20	40	
700V			8	20	40	
800V			8	20	40	
1000V			8	20	40	
Tensioni primarie	VA		VA		VA	
	cl.0.2	cl.0.2	cl.0.2	cl.0.2	cl.0.2	cl.0.2
÷ : √3	1	2	3	8	14	

Current transformers - MEASURE

Open core single-phase current transformer



TRA11



TRA15

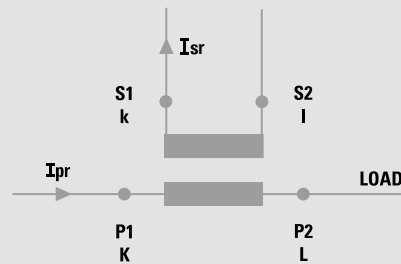
Item TRA11				
Passing cable window/bar Ø 110mm				
Isr 5A	Primary current (A)	cl. 0.5	Accuracy class VA cl. 1	cl. 3
TAAA50C100	100A	-	-	3
TAAA50C120	120A	-	-	3
TAAA50C150	150A	-	-	5
TAAA50C200	200A	-	-	5
TAAA50C250	250A	-	5	-
TAAA50C300	300A	-	5	-
TAAA50C400	400A	5	-	-
TAAA50C500	500A	8	-	-
TAAA50C600	600A	15	-	-
TAAA50C800	800A	15	-	-
TAAA50D100	1000A	15	-	-
TAAA50D120	1200A	20	-	-
TAAA50D150	1500A	20	-	-
TAAA50D200	2000A	25	-	-

Item TRA15				
Passing cable window/bar Ø 150mm				
Isr 5A	Primary current (A)	cl. 0.5	Accuracy class VA cl. 1	cl. 3
TAAB50C100	100A	-	-	3
TAAB50C120	120A	-	-	3
TAAB50C150	150A	-	-	5
TAAB50C200	200A	-	-	5
TAAB50C250	250A	-	5	-
TAAB50C300	300A	-	5	-
TAAB50C400	400A	5	-	-
TAAB50C500	500A	8	-	-
TAAB50C600	600A	15	-	-
TAAB50C800	800A	15	-	-
TAAB50D100	1000A	15	-	-
TAAB50D120	1200A	20	-	-
TAAB50D150	1500A	20	-	-
TAAB50D200	2000A	25	-	-
TAAB50D250	2500A	25	-	-
TAAB50D300	3000A	25	-	-
TAAB50D400	4000A	30	-	-
TAAB50D500	5000A	30	-	-

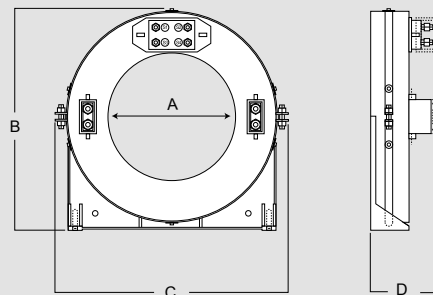
Technical characteristics

MODEL	TRA11	TRA15
Technical characteristics		
Reference specification	EN/IEC 61869-1, 61869-2	
Rated primary current I _{pr}	100÷2000A	100÷5000A
Rated frequency	50Hz	
Working frequency	47÷63Hz	
Rated continuous thermal current I _{cth}	100% I _{pr}	
Rated short-time thermal current I _{th}	< 60I _{pr} (max.90kA/1s)	
Rated dynamic current	2,5I _{th}	
Instrument security factor (FS)	≤ 15	
Rated secondary current I _{sr}	5A	
Max. power dissipation	≤ 25W	≤ 25W
Allowed max cable or busbar temperature	125°C	
INSULATION REQUIREMENTS		
Type	Dry transformer, air insulation	
Highest voltage for equipment U _m	0.72kV r.m.s.	
Rated insulation level	3kV r.m.s. 50Hz/1min	
Class of insulation (EN/IEC 61869-1, 61869-2)	B	
ENVIRONMENTAL CONDITIONS		
Nominal temperature range	-25÷50°C	
Storage temperature	-40÷85°C	
Relative humidity	≤ 85%	
Suitable for tropical climates	yes	
CONNECTION		
Primary winding	passing bus bar	
Secondary winding	tightening by nut M4	
MECHANICAL FEATURES		
Housing material	self extinguishing polycarbonate	
Protection degree (EN/IEC 60529)	IP20 with sealable terminal cover IP20 housing	
Weight	4200 gr	5500 gr

Wiring diagrams



Dimensions



Dim. (mm)	A	B	C	D
TRA11	110	219	235	79
TRA15	150	259	275	79

Current transformers - MEASURE

Open core single-phase current transformer



TRA230

TRA580

TRA812

TRA816

Item		TRA230				
		Busbar 20x30mm				
Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA			cl. 3
			cl. 0.5	cl. 1	cl. 3	
TA23050B600	TA23010B600	60A	-	-	1	
TA23050C100	TA23010C100	100A	-	-	1.5	
TA23050C150	TA23010C150	150A	-	1.5	2.5	
TA23050C200	TA23010C200	200A	1	2.5	-	
TA23050C250	TA23010C250	250A	1.5	3	-	
TA23050C300	TA23010C300	300A	1.5	4	-	
TA23050C400	TA23010C400	400A	2.5	6	-	

Item		TRA580				
		Busbar 50x80mm				
Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA			cl. 3
			cl. 0.5	cl. 1	cl. 3	
TA58050C250	TA58010C250	250A	1	2	-	
TA58050C300	TA58010C300	300A	1.5	3	-	
TA58050C400	TA58010C400	400A	1.5	3	-	
TA58050C500	TA58010C500	500A	2.5	5	-	
TA58050C600	TA58010C600	600A	2.5	5	-	
TA58050C800	TA58010C800	800A	3	7	-	
TA58050D100	TA58010D100	1000A	5	10	-	

Item		TRA812				
		Busbar 80x120mm				
Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA			cl. 3
			cl. 0.5	cl. 1	cl. 3	
TA81250C500	TA81210C500	500A	-	4	12	
TA81250C600	TA81210C600	600A	-	5	14	
TA81250C800	TA81210C800	800A	3	7	-	
TA81250D100	TA81210D100	1000A	5	10	-	
TA81250D120	TA81210D120	1200A	6	11	-	
TA81250D150	TA81210D150	1500A	8	15	-	

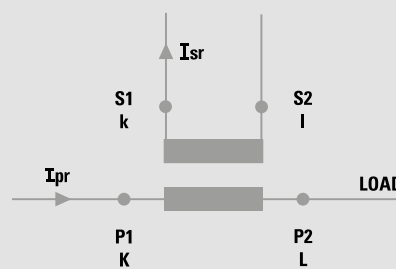
Item		TRA816				
		Busbar 80x160mm				
Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA			cl. 3
			cl. 0.5	cl. 1	cl. 3	
TA81650D200	TA81610D200	2000A	15	20	-	
TA81650D250	TA81610D250	2500A	15	20	-	
TA81650D300	TA81610D300	3000A	20	25	-	
TA81650D400	TA81610D400	4000A	20	25	-	
TA81650D500	TA81610D500	5000A	20	25	-	

Accessories	
Item	Description
ATACOP13	Sealable terminal cover

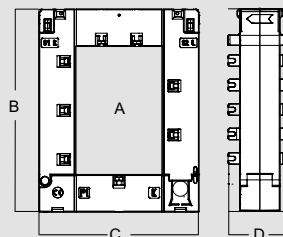
Technical characteristics

MODEL	TRA230	TRA580	TRA812	TRA816
Technical characteristics				
Reference specification	EN/IEC 61869-1, 61869-2			
Rated primary current I _{pr}	60+400A	250+1000A	500+1500A	2000+5000A
Rated frequency	50Hz			
Working frequency	47÷63Hz			
Rated continuous thermal current I _{cth}	100% I _{pr}			
Rated short-time thermal current I _{th}	< 60I _{pr} (max.90kA/1s)			
Rated dynamic current	2,5I _{th}			
Instrument security factor (FS)	≤ 15			
Rated secondary current I _{sr}	1 - 5A			
Max. power dissipation	≤ 3.4W	≤ 10W	≤ 10W	≤ 26W
Allowed max cable or busbar temperature	125°C			
INSULATION REQUIREMENTS				
Type	Dry transformer, air insulation			
Highest voltage for equipment U _m	0.72kV r.m.s.			
Rated insulation level	3kV r.m.s. 50Hz/1min			
Class of insulation (EN/IEC 61869-1, 61869-2)	B			
ENVIRONMENTAL CONDITIONS				
Nominal temperature range	-25÷50°C			
Storage temperature	-40÷85°C			
Relative humidity	≤ 85%			
Suitable for tropical climates	yes			
CONNECTION				
Primary winding	passing bus bar			
Secondary winding	4 screw terminals (max. cable section 6mm ²) + 2 fast-ons (4,8x0,8mm)			
MECHANICAL FEATURES				
Housing material	self extinguishing polycarbonate			
Protection degree (EN/IEC 60529)	IP20			
Weight	680 gr	1100 gr	1550 gr	3550 gr

Wiring diagrams



Dimensions



Dim. (mm)	A	B	C	D
TRA230	20x30	110	92	60
TRA580	50x80	150	120	55
TRA812	80x120	190	150	55
TRA816	80x160	230	185	70

Current transformers - MEASURE

Winding primary single-phase current transformer



TAQ2L - TAQ6L



TAQ2M - TAQ6M



TAQ10



TAQ20

Item		Primary current (A)	Accuracy class VA	
Isr 5A	Isr 1A		cl. 0.5	cl. 1
TAQ2M50A500	TAQ2M10A500	5A	2	4
TAQ2M50B100	TAQ2M10B100	10A	2	4
TAQ2M50B150	TAQ2M10B150	15A	2	4
TAQ2M50B200	TAQ2M10B200	20A	2	4
TAQ2M50B250	TAQ2M10B250	25A	2	4
TAQ2M50B300	TAQ2M10B300	30A	2	4
TAQ2M50B400	TAQ2M10B400	40A	2	4

Item		Primary current (A)	Accuracy class VA	
Isr 5A	Isr 1A		cl. 0.5	cl. 1
TAQ2L50B500	TAQ2L10B500	50A	2	4
TAQ2L50B600	TAQ2L10B600	60A	2	4
TAQ2L50B750	TAQ2L10B750	75A	2	4
TAQ2L50B800	TAQ2L10B800	80A	2	4
TAQ2L50C100	TAQ2L10C100	100A	2	4

Item		Primary current (A)	Accuracy class VA	
Isr 5A	Isr 1A		cl. 0.5	cl. 1
TAQ6M50A500	TAQ6M10A500	5A	6	7.5
TAQ6M50B100	TAQ6M10B100	10A	6	7.5
TAQ6M50B150	TAQ6M10B150	15A	6	7.5
TAQ6M50B200	TAQ6M10B200	20A	6	7.5
TAQ6M50B250	TAQ6M10B250	25A	6	7.5
TAQ6M50B300	TAQ6M10B300	30A	6	7.5
TAQ6M50B400	TAQ6M10B400	40A	6	7.5

Item		Primary current (A)	Accuracy class VA	
Isr 5A	Isr 1A		cl. 0.5	cl. 1
TAQ6L50B500	TAQ6L10B500	50A	6	7.5
TAQ6L50B600	TAQ6L10B600	60A	6	7.5
TAQ6L50B750	TAQ6L10B750	75A	6	7.5
TAQ6L50B800	TAQ6L10B800	80A	6	7.5

Accessories		Description
ATACOP13		Sealable terminal cover for TAQ2M - TAQ2L - TAQ6M TAQ6L
ATACOP03		Sealable terminal cover for TAQ10
ATACOP07		Sealable terminal cover for TAQ20

Item		Primary current (A)	Accuracy class VA	
Isr 5A	Isr 1A		cl. 0.5	cl. 1
TAQC50A500	TAQC10A500	5A	10	15
TAQC50B100	TAQC10B100	10A	10	15
TAQC50B150	TAQC10B150	15A	10	15
TAQC50B200	TAQC10B200	20A	10	15
TAQC50B250	TAQC10B250	25A	10	15
TAQC50B300	TAQC10B300	30A	10	15
TAQC50B400	TAQC10B400	40A	10	15
TAQC50B500	TAQC10B500	50A	10	15
TAQC50B600	TAQC10B600	60A	10	15
TAQC50B700	TAQC10B700	70A	10	15
TAQC50B750	TAQC10B750	75A	10	15
TAQC50B800	TAQC10B800	80A	10	15
TAQC50C100	TAQC10C100	100A	10	15
TAQC50C120	TAQC10C120	120A	10	15
TAQC50C150	TAQC10C150	150A	10	15
TAQC50C200	TAQC10C200	200A	10	15
TAQC50C250	TAQC10C250	250A	10	15
TAQC50C300	TAQC10C300	300A	10	15

Item		Primary current (A)	Accuracy class VA	
Isr 5A	Isr 1A		cl. 0.5	cl. 1
TAQD50A500	TAQD10A500	5A	20	40
TAQD50B100	TAQD10B100	10A	20	40
TAQD50B150	TAQD10B150	15A	20	40
TAQD50B200	TAQD10B200	20A	20	40
TAQD50B250	TAQD10B250	25A	20	40
TAQD50B300	TAQD10B300	30A	20	40
TAQD50B400	TAQD10B400	40A	20	40
TAQD50B500	TAQD10B500	50A	20	40
TAQD50B600	TAQD10B600	60A	20	40
TAQD50B700	TAQD10B700	70A	20	40
TAQD50B750	TAQD10B750	75A	20	40
TAQD50B800	TAQD10B800	80A	20	40
TAQD50C100	TAQD10C100	100A	20	40
TAQD50C120	TAQD10C120	120A	20	40
TAQD50C150	TAQD10C150	150A	20	40
TAQD50C200	TAQD10C200	200A	20	40
TAQD50C250	TAQD10C250	250A	20	40
TAQD50C300	TAQD10C300	300A	20	40
TAQD50C400	TAQD10C400	400A	20	40
TAQD50C500	TAQD10C500	500A	20	40
TAQD50C600	TAQD10C600	600A	20	40

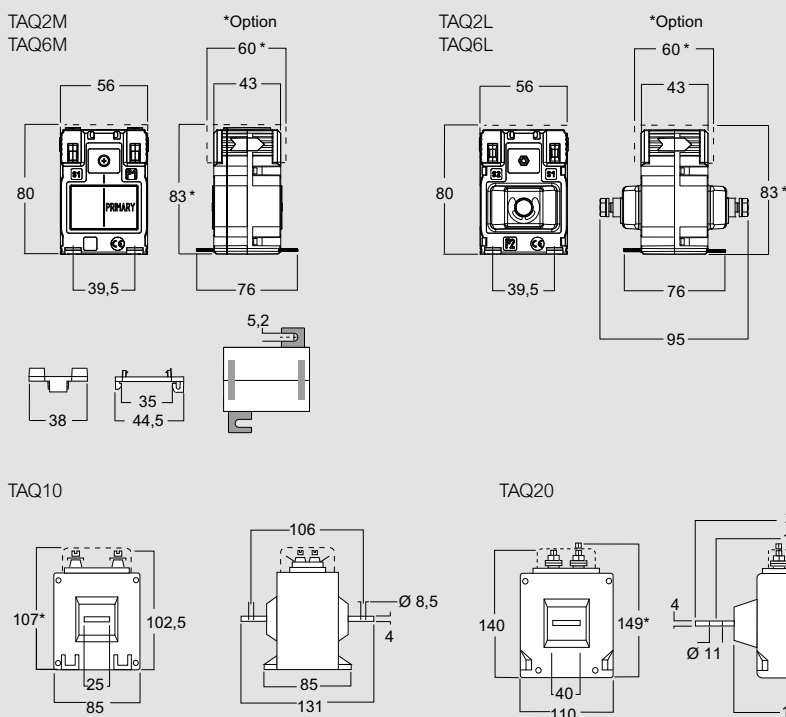
Current transformers - MEASURE

Winding primary single-phase current transformer

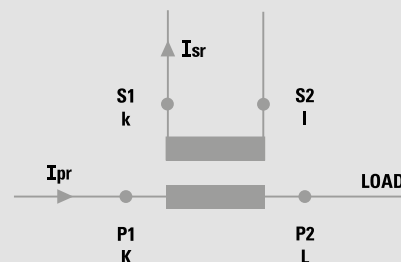
Technical characteristics

MODEL	TAQ2M	TAQ6M	TAQ2L	TAQ6L	TAQ10	TAQ20
Technical characteristics						
Reference specification	EN/IEC 61869-1, 61869-2					
Rated primary current I _{pr}	5÷40A	5÷40A	50÷100A	50÷80A	5÷300A	5÷600A
Rated frequency	50Hz					
Working frequency	47÷63Hz					
Rated continuous thermal current I _{cth}	100% I _{pr}					
Rated short-time thermal current I _{th}	< 60I _{pr}					
Rated dynamic current	2,5I _{th}					
Instrument security factor (FS)	≤ 5					
Rated secondary current I _{sr}	5 - 1A					
Max. power dissipation	≤ 4.3W	≤ 4.3W	≤ 4.3W	≤ 4.3W	≤ 2.5W	≤ 2.5W
Allowed max cable or busbar temperature	125°C					
INSULATION REQUIREMENTS						
Type	Dry transformer, air insulation					
Highest voltage for equipment U _m	0.72kV r.m.s.					
Rated insulation level	3kV r.m.s. 50Hz/1min					
Class of insulation (EN/IEC 61869-1, 61869-2)	B					
ENVIRONMENTAL CONDITIONS						
Nominal temperature range	-25÷50°C					
Storage temperature	-40÷85°C					
Relative humidity	≤ 85%					
Suitable for tropical climates	yes					
CONNECTION						
Primary winding	2 screw terminals (max. cable section 6mm ² , 10mm ² cables with lag)		Tightening by nut M6		built-in central bar (25x4mm)	built-in central bar (40x4mm)
Secondary winding	2 screw terminals (max. cable section 6mm ² , 10mm ² cables with lag)		4 screw terminals (max. cable section 6mm ²) + 2 fast-ons (4,8x0,8mm)		double screw M4	
MECHANICAL FEATURES						
Housing material	self extinguishing polycarbonate					
Protection degree (EN/IEC 60529)	IP40 housing - IP20 secondary terminals				IP20 housing, IP00 terminals (IP20 secondary terminals with sealable terminal cover)	
Mounting	snap-on 35mm rail, screw type for wall mounting					
Weight	250 gr	250 gr	300 gr	300 gr	700 gr	2000 gr

Dimensions



Wiring diagrams



Current transformers - MEASURE

Cable/passing bar single-phase current transformer



TAIBB



TA221

Item		TAIBB			
Passing cable window/bar Ø 21mm - 16,5x12,5mm					
Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA		
			cl. 0.5	cl. 1	cl.3
TABB50B400	TABB10B400	40	-	-	1
TABB50B500	TABB10B500	50	-	-	1.5
TABB50B600	TABB10B600	60	-	1	2
TABB50B700	TABB10B700	70	-	1.5	2.5
TABB50B750	TABB10B750	75	-	1.5	2.5
TABB50B800	TABB10B800	80	-	1.5	2.5
TABB50C100	TABB10C100	100	1.5	2.5	3.5
TABB50C120	TABB10C120	120	2	3.5	-
TABB50C125	TABB10C125	125	2	3.5	4
TABB50C150	TABB10C150	150	3	4	-
TABB50C160	TABB10C160	160	3	4	-
TABB50C200	TABB10C200	200	4	5.5	-
TABB50C250	-	250	5	6	-
TABB50C300	-	300	6	7.5	-

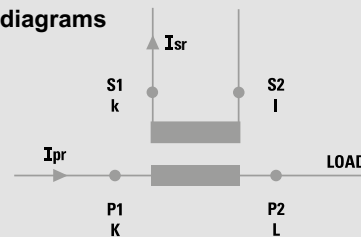
Item		TA221			
Passing cable window/bar Ø 21mm - 20,5x10,5mm					
Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA		
			cl. 0.5	cl. 1	cl.3
TA22150B500	TA22110B500	50	-	-	2.5
TA22150B600	TA22110B600	60	-	1.5	3
TA22150B700	TA22110B700	70	-	1.5	4
TA22150B750	TA22110B750	75	-	2	4
TA22150B800	TA22110B800	80	-	3	4
TA22150C100	TA22110C100	100	1.5	3	-
TA22150C120	TA22110C120	120	2.5	4	-
TA22150C125	TA22110C125	125	2.5	4	-
TA22150C150	TA22110C150	150	4	6	-
TA22150C160	TA22110C160	160	4	6	-
TA22150C200	TA22110C200	200	6	8	-
TA22150C250	TA22110C250	250	8	10	-
TA22150C300	-	300	8	10	-

Accessori	
Item	Description
ATACOP12	Sealable terminal cover per TAIBB
ATACOP13	Sealable terminal cover per TA221

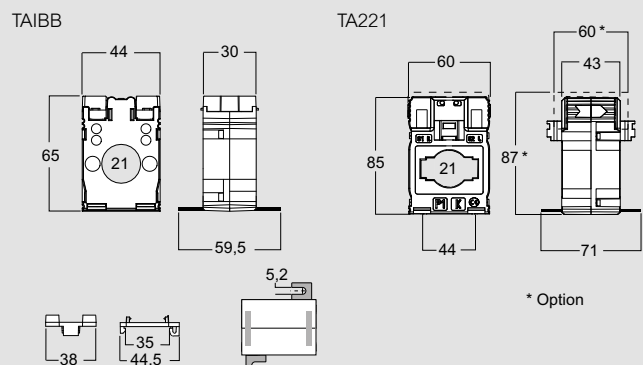
Technical characteristics

MODEL	TAIBB	TA221
Technical characteristics		
Reference specification	EN/IEC 61869-1, 61869-2	
Rated primary current I _{pr}	40÷300A (with secondary winding 5A)	50÷300A (with secondary winding 5A)
	40÷200A (with secondary winding 1A)	50÷250A (with secondary winding 1A)
Rated frequency	50Hz	
Working frequency	47÷63Hz	
Rated continuous thermal current I _{cth}	100% I _{pr}	
Rated short-time thermal current I _{th}	< 60I _{pr}	
Rated dynamic current	2,5I _{th}	
Instrument security factor (FS)	≤ 5	
Rated secondary current I _s	5 - 1A (I _s 1A not available with I _{pr} 250 and 300A)	
Max. power dissipation	≤ 3W	≤ 4W
Allowed max cable or busbar temperature	125°C	
INSULATION REQUIREMENTS		
Type	Dry transformer, air insulation	
Highest voltage for equipment U _m	0.72kV r.m.s.	
Rated insulation level	3kV r.m.s. 50Hz/1min	
Class of insulation (EN/IEC 61869-1, 61869-2)	B	
ENVIRONMENTAL CONDITIONS		
Nominal temperature range	-25÷50°C	
Storage temperature	-40÷85°C	
Relative humidity	≤ 85%	
Suitable for tropical climates	yes	
CONNECTION		
Primary winding	Passing cable	
Secondary winding	screw terminals , max 2 separated wires 2,5mm ²	4 screw terminals (max. cable section 6mm ²) + 2 fast-ons (4,8x0,8mm)
MECHANICAL FEATURES		
Housing material	self extinguishing polycarbonate	
Protection degree (EN/IEC 60529)	IP40 housing - IP20 secondary terminals	
Mounting	snap-on 35mm rail, screw type for wall mounting	
Weight	180 gr	320 gr

Wiring diagrams



Dimensions



Current transformers - MEASURE

Cable/passing bar single-phase current transformer



TA327



TA426

Item		TA327			
		Passing cable window/bar Ø 27mm - 25.5x15.5mm - 32.5x10.5mm			
Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA		
			cl. 0.5	cl. 1	cl.3
TA32750B500	TA32710B500	50	-	-	1.5
TA32750B600	TA32710B600	60	-	-	2.5
TA32750B700	TA32710B700	70	-	1.5	3
TA32750B750	TA32710B750	75	-	1.5	3
TA32750B800	TA32710B800	80	-	2.5	3.5
TA32750C100	TA32710C100	100	1	2.5	-
TA32750C120	TA32710C120	120	2	3.5	-
TA32750C125	TA32710C125	125	2	3.5	-
TA32750C150	TA32710C150	150	3	4	-
TA32750C160	TA32710C160	160	3	5	-
TA32750C200	TA32710C200	200	4	7	-
TA32750C250	TA32710C250	250	6	8	-
TA32750C300	TA32710C300	300	8	10	-
TA32750C400	TA32710C400	400	10	12	-
TA32750C500	TA32710C500	500	12	15	-
TA32750C600	TA32710C600	600	15	20	-

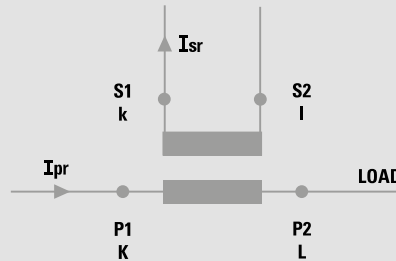
Item		TA426		
		Passing cable window/bar Ø 26mm - 32.5x15.5mm - 40.5x12.5mm		
Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA	
			cl. 0.5	cl. 1
TA42650C150	TA42610C150	150A	1.5	3
TA42650C160	TA42610C160	160A	1.5	3
TA42650C200	TA42610C200	200A	2.5	4
TA42650C250	TA42610C250	250A	3	4
TA42650C300	TA42610C300	300A	4	6
TA42650C400	TA42610C400	400A	6	8
TA42650C500	TA42610C500	500A	6	8
TA42650C600	TA42610C600	600A	6	8
TA42650C700	TA42610C700	700A	8	10
TA42650C750	TA42610C750	750A	8	10
TA42650C800	TA42610C800	800A	10	12

Accessories	
Description	
ATACOP13	Sealable terminal cover

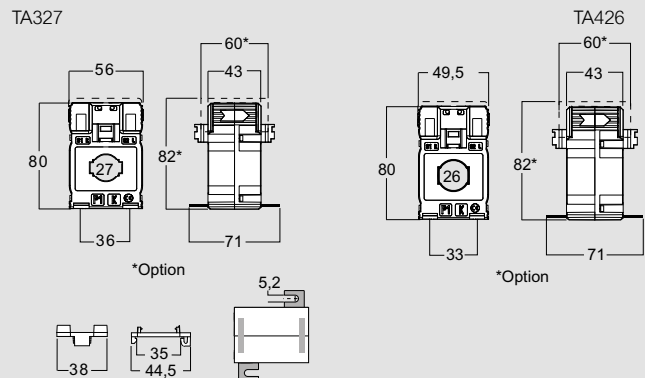
Technical characteristics

MODEL	TA327	TA426
TECHNICAL CHARACTERISTICS		
Reference specification	EN/IEC 61869-1, 61869-2	
Rated primary current Ipr	50÷600A	150÷800A
Rated frequency	50Hz	
Working frequency	47÷63Hz	
Rated continuous thermal current Icth	100% Ipr	
Rated short-time thermal current Ith	< 60Ipr	
Rated dynamic current	2,5Ith	
Instrument security factor (FS)	≤ 5	
Rated secondary current Isr	1-5A	
Max. power dissipation	≤ 7W	≤ 11.5W
Allowed max cable or busbar temperature	125°C	
INSULATION REQUIREMENTS		
Type	Dry transformer, air insulation	
Highest voltage for equipment Um	0.72kV r.m.s.	
Rated insulation level	3kV r.m.s. 50Hz/1min	
Class of insulation (EN/IEC 61869-1, 61869-2)	B	
ENVIRONMENTAL CONDITIONS		
Nominal temperature range	-25÷50°C	
Storage temperature	-40÷85°C	
Relative humidity	≤ 85%	
Suitable for tropical climates	yes	
CONNECTION		
Primary winding	Passing cable/sbarra	
Secondary winding	4 screw terminals (max. cable section 6mm²)+ 2 fast-ons (4,8x0,8mm)	
MECHANICAL FEATURES		
Housing material	self extinguishing polycarbonate	
Protection degree (EN/IEC 60529)	IP40 housing - IP20 secondary terminals	
Mounting	snap-on 35mm rail, screw type for wall mounting	
Weight	260 gr	300 gr

Wiring diagrams



Dimensions



Current transformers - MEASURE

Cable/passing bar single-phase current transformer



TA432



TA540

Item		TA432			
		Passing cable window/bar Ø 32mm - 25,5x25,5mm - 32,5x20,5mm - 40,5x10,5mm			
Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA		
			cl. 0.5	cl. 1	cl.3
TA43250C100	TA43210C100	100A	-	2	5
TA43250C120	TA43210C120	120A	-	2	5
TA43250C125	TA43210C125	125A	-	2	6
TA43250C150	TA43210C150	150A	1	3	-
TA43250C160	TA43210C160	160A	1.5	3	-
TA43250C200	TA43210C200	200A	3	5	-
TA43250C250	TA43210C250	250A	3	5	-
TA43250C300	TA43210C300	300A	5	8	-
TA43250C400	TA43210C400	400A	8	10	-
TA43250C500	TA43210C500	500A	10	12	-
TA43250C600	TA43210C600	600A	12	15	-
TA43250C700	TA43210C700	700A	10	12	-
TA43250C750	TA43210C750	750A	10	12	-
TA43250C800	TA43210C800	800A	10	12	-
TA43250D100	TA43210D100	1000A	12	15	-

Item		TA540		
		Passing cable window/bar Ø 40mm - 40,5x20,5mm - 50,5x12,5mm - 40,5x10,5mm		
Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA	
			cl. 0.5	cl. 1
TA54050C300	TA54010C300	300A	2	4
TA54050C400	TA54010C400	400A	4	6
TA54050C500	TA54010C500	500A	4	6
TA54050C600	TA54010C600	600A	6	8
TA54050C700	TA54010C700	700A	8	10
TA54050C750	TA54010C750	750A	8	10
TA54050C800	TA54010C800	800A	8	12
TA54050D100	TA54010D100	1000A	10	12
TA54050D120	TA54010D120	1200A	12	15

Accessories	
Item	Description
ATACOP13	Sealable terminal cover

Technical characteristics

MODEL	TA432	TA540
TECHNICAL CHARACTERISTICS		
Reference specification	EN/IEC 61869-1, 61869-2	
Rated primary current I _{pr}	100÷1000A	300÷1200A
Rated frequency	50Hz	
Working frequency	47÷63Hz	
Rated continuous thermal current I _{cth}	100% I _{pr}	
Rated short-time thermal current I _{th}	< 60I _{pr}	
Rated dynamic current	2,5I _{th}	
Instrument security factor (FS)	≤ 5	
Rated secondary current I _{sr}	5 - 1A	
Max. power dissipation	≤ 9W	≤ 10,5W
Allowed max cable or busbar temperature	125°C	

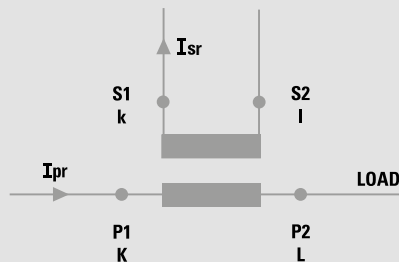
INSULATION REQUIREMENTS	
Type	Dry transformer, air insulation
Highest voltage for equipment U _m	0,72kV r.m.s.
Rated insulation level	3kV r.m.s. 50Hz/1min
Class of insulation (EN/IEC 61869-1, 61869-2)	B

ENVIRONMENTAL CONDITIONS	
Nominal temperature range	-25÷50°C
Storage temperature	-40÷85°C
Relative humidity	≤ 85%
Suitable for tropical climates	yes

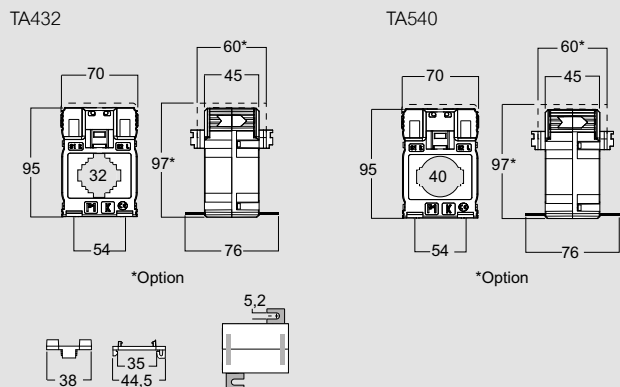
CONNECTION	
Primary winding	Passing cable/bus bar primary
Secondary winding	4 screw terminals (max. cable section 6mm ²) + 2 fast-ons (4,8x0,8mm)

MECHANICAL FEATURES	
Housing material	self extinguishing polycarbonate
Protection degree (EN/IEC 60529)	IP40 housing - IP20 secondary terminals
Mounting	snap-on 35mm rail, screw type for wall mounting
Weight	420 gr 320 gr

Wiring diagrams



Dimensions



Current transformers - MEASURE

Cable/passing bar single-phase current transformer



TAC80



TAC110

Item		TAC80	
Passing cable window/bar Ø 80mm			
Isr 5A	Primary current (A)	Accuracy class VA	
		cl. 0.5	cl. 1
TA0850C200	200A	1.5	3
TA0850C250	250A	2	4
TA0850C300	300A	2.5	5
TA0850C400	400A	3	5
TA0850C500	500A	3	5
TA0850C600	600A	4	6
TA0850C800	800A	4	6
TA0850D100	1000A	6	8

Item		TAC110	
Passing cable window/bar Ø 110mm			
Isr 5A	Primary current (A)	Accuracy class VA	
		cl. 0.5	cl. 1
TA1150C400	400A	3	5
TA1150C500	500A	3	5
TA1150C600	600A	4	6
TA1150C800	800A	4	6
TA1150D100	1000A	8	10
TA1150D120	1200A	8	10
TA1150D150	1500A	10	12

Technical characteristics

MODEL	TAC80	TAC110
TECHNICAL CHARACTERISTICS		
Reference specification	EN/IEC 61869-1, 61869-2	
Rated primary current I _{pr}	200÷1000A	400÷1500A
Rated frequency	50Hz	
Working frequency	47÷63Hz	
Rated continuous thermal current I _{cth}	100% I _{pr}	
Rated short-time thermal current I _{th}	< 60I _{pr}	
Rated dynamic current	2,5I _{th}	
Instrument security factor (FS)	≤ 5	
Rated secondary current I _{sr}	5A	
Max. power dissipation	≤ 7.5W	≤ 10.5W
Allowed max cable or busbar temperature	125°C	

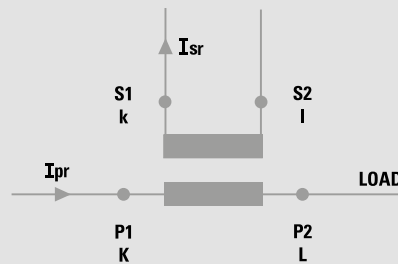
INSULATION REQUIREMENTS	
Type	Dry transformer, air insulation
Highest voltage for equipment U _m	0.72kV r.m.s.
Rated insulation level	3kV r.m.s. 50Hz/1min
Class of insulation (EN/IEC 61869-1, 61869-2)	B

ENVIRONMENTAL CONDITIONS	
Nominal temperature range	-25÷50°C
Storage temperature	-40÷85°C
Relative humidity	≤ 85%
Suitable for tropical climates	yes

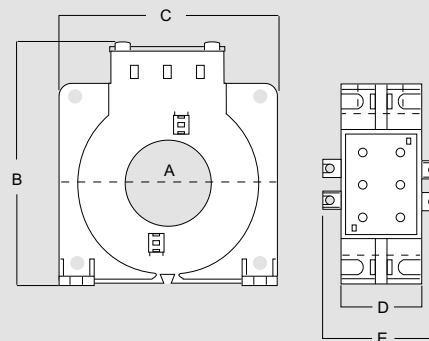
CONNECTION	
Primary winding	Passing cable
Secondary winding	2 screw terminals (2x2.5mm ²)

MECHANICAL FEATURES	
Housing material	self extinguishing polycarbonate
Protection degree (EN/IEC 60529)	IP40 housing - IP20 secondary terminals
Mounting	2 screw type for wall mounting
Weight	500 gr 650 gr

Wiring diagrams



Dimensions



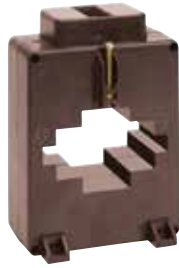
Dim. (mm)	A	B	C	D	E
TAC80	80	132	125	36	56
TAC110	110	170	165	36	56

Current transformers - MEASURE

Cable/passing bar single-phase current transformer



TAS64



TAS81

Item		TAS64			
		Passing cable window/bar 51x31mm - 64x11mm			
Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA		
			cl. 0.5	cl. 1	
TASI50C250	TASI10C250	250A	-	2.5	
TASI50C300	TASI10C300	300A	-	3	
TASI50C400	TASI10C400	400A	-	4	
TASI50C500	TASI10C500	500A	2	4	
TASI50C600	TASI10C600	600A	4	6	
TASI50C700	TASI10C700	700A	6	8	
TASI50C750	TASI10C750	750A	6	8	
TASI50C800	TASI10C800	800A	6	8	
TASI50D100	TASI10D100	1000A	5	10	
TASI50D120	TASI10D120	1200A	10	12	
TASI50D125	TASI10D125	1250A	10	12	
TASI50D150	TASI10D150	1500A	10	12	
TASI50D160	TASI10D160	1600A	10	12	

Item		TAS81			
		Passing cable window/bar 64x31mm - 81x11mm			
Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA		
			cl. 0.5	cl. 1	
TASN50C400	TASN10C400	400A	-	2	
TASN50C500	TASN10C500	500A	2	4	
TASN50C600	TASN10C600	600A	3	5	
TASN50C700	TASN10C700	700A	4	6	
TASN50C750	TASN10C750	750A	4	6	
TASN50C800	TASN10C800	800A	4	6	
TASN50D100	TASN10D100	1000A	6	8	
TASN50D120	TASN10D120	1200A	8	10	
TASN50D125	TASN10D125	1250A	8	10	
TASN50D150	TASN10D150	1500A	10	12	
TASN50D160	TASN10D160	1600A	10	12	
TASN50D200	TASN10D200	2000A	10	12	
TASN50D250	TASN10D250	2500A	10	12	

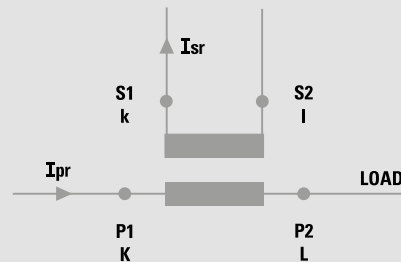
Accessories

ATACOP03	Description
	Sealable terminal cover

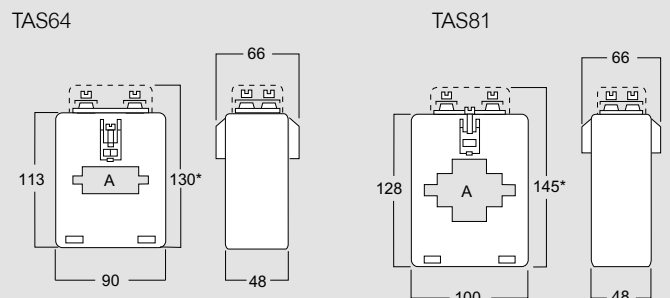
Technical characteristics

MODEL	TAS64	TAS81
TECHNICAL CHARACTERISTICS		
Reference specification	EN/IEC 61869-1, 61869-2	
Rated primary current I _{pr}	250÷1600A	400÷2500A
Rated frequency	50Hz	
Working frequency	47÷63Hz	
Rated continuous thermal current I _{cth}	100% I _{pr}	
Rated short-time thermal current I _{th}	< 60I _{pr}	
Rated dynamic current	2,5I _{th}	
Instrument security factor (FS)	≤ 5	
Rated secondary current I _{sr}	5 - 1A	
Max. power dissipation	≤ 16W	≤ 14,5W
Allowed max cable or busbar temperature	125°C	
INSULATION REQUIREMENTS		
Type	Dry transformer, air insulation	
Highest voltage for equipment U _m	0.72kV r.m.s.	
Rated insulation level	3kV r.m.s. 50Hz/1min	
Class of insulation (EN/IEC 61869-1, 61869-2)	B	
ENVIRONMENTAL CONDITIONS		
Nominal temperature range	-25÷50°C	
Storage temperature	-40÷85°C	
Relative humidity	≤ 85%	
Suitable for tropical climates	yes	
CONNECTION		
Primary winding	Passing bus bar	
Secondary winding	tightening by nut M4	
MECHANICAL FEATURES		
Housing material	self extinguishing polycarbonate	
Protection degree (EN/IEC 60529)	IP40 housing - IP00 terminals (IP20 with sealable terminal cover)	
Weight	500 gr	470 gr

Wiring diagrams



Dimensions



Current transformers - MEASURE

Cable/passing bar single-phase current transformer



TAS65

TAS84

Item				TAS65		
Vertical bar		Horizontal bar		Primary current (A)	Accuracy class VA	
Isr 5A	Isr 1A	Isr 5A	Isr 1A		cl. 0.5	cl. 1
TASL50C250	TASL10C250	TASL50C2503	TASL10C2503	250A	1	4
TASL50C300	TASL10C300	TASL50C3003	TASL10C3003	300A	1.5	6
TASL50C400	TASL10C400	TASL50C4003	TASL10C4003	400A	4	8
TASL50C500	TASL10C500	TASL50C5003	TASL10C5003	500A	8	10
TASL50C600	TASL10C600	TASL50C6003	TASL10C6003	600A	8	12
TASL50C700	TASL10C700	TASL50C7003	TASL10C7003	700A	10	12
TASL50C750	TASL10C750	TASL50C7503	TASL10C7503	750A	10	15
TASL50C800	TASL10C800	TASL50C8003	TASL10C8003	800A	12	15
TASL50D100	TASL10D100	TASL50D1003	TASL10D1003	1000A	15	20
TASL50D120	TASL10D120	TASL50D1203	TASL10D1203	1200A	15	20
TASL50D125	TASL10D125	TASL50D1253	TASL10D1253	1250A	15	20
TASL50D150	TASL10D150	TASL50D1503	TASL10D1503	1500A	20	25
TASL50D160	TASL10D160	TASL50D1603	TASL10D1603	1600A	20	25
TASL50D200	TASL10D200	TASL50D2003	TASL10D2003	2000A	20	25

Passing cable window/bar 32x65mm and 65x32mm - Long side terminals

Item				TAS84		
Vertical bar		Horizontal bar		Primary current (A)	Accuracy class VA	
Isr 5A	Isr 1A	Isr 5A	Isr 1A		cl. 0.5	cl. 1
TASO50C300	TASO10C300	TASO50C3003	TASO10C3003	300A	-	2
TASO50C400	TASO10C400	TASO50C4003	TASO10C4003	400A	3	5
TASO50C500	TASO10C500	TASO50C5003	TASO10C5003	500A	5	7
TASO50C600	TASO10C600	TASO50C6003	TASO10C6003	600A	6	10
TASO50C700	TASO10C700	TASO50C7003	TASO10C7003	700A	6	10
TASO50C750	TASO10C750	TASO50C7503	TASO10C7503	750A	8	12
TASO50C800	TASO10C800	TASO50C8003	TASO10C8003	800A	8	12
TASO50D100	TASO10D100	TASO50D1003	TASO10D1003	1000A	10	15
TASO50D120	TASO10D120	TASO50D1203	TASO10D1203	1200A	12	15
TASO50D125	TASO10D125	TASO50D1253	TASO10D1253	1250A	12	15
TASO50D150	TASO10D150	TASO50D1503	TASO10D1503	1500A	15	20
TASO50D160	TASO10D160	TASO50D1603	TASO10D1603	1600A	15	20
TASO50D200	TASO10D200	TASO50D2003	TASO10D2003	2000A	20	25
TASO50D250	TASO10D250	TASO50D2503	TASO10D2503	2500A	25	30

Passing cable window/bar 34x84mm and 84x34mm - Long side terminals

Accessories

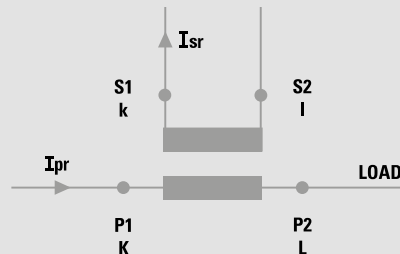
Description

ATACOP04	Sealable terminal cover
ATADIS03	Spacing device for bars of 50 mm (for TAS65)
ATADIS01	Spacing device for bars of 60 mm (for TAS84)
ATAFIS01	2 screw type for wall mounting

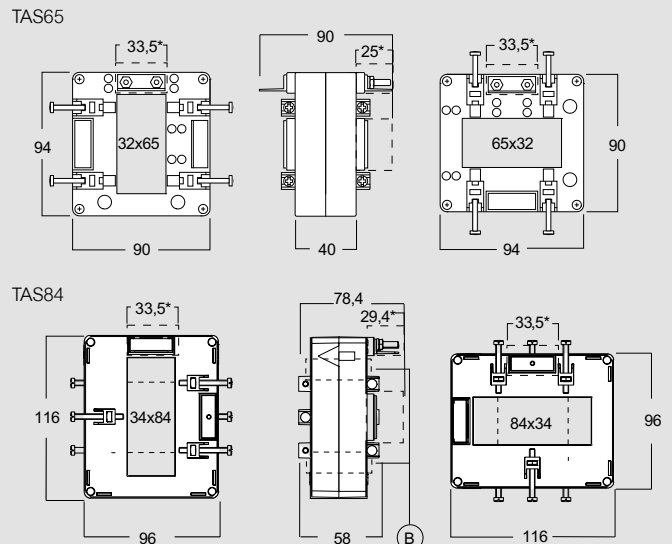
Technical characteristics

MODEL	TAS65	TAS84
TECHNICAL CHARACTERISTICS		
Reference specification	EN/IEC 61869-1, 61869-2	
Rated primary current I _{pr}	250÷2000A	300÷2500A
Rated frequency	50Hz	
Working frequency	47÷63Hz	
Rated continuous thermal current I _{cth}	100% I _{pr}	
Rated short-time thermal current I _{th}	< 60I _{pr}	
Rated dynamic current	2,5I _{th}	
Instrument security factor (FS)	≤ 5	
Rated secondary current I _{sr}	5 - 1A	
Max. power dissipation	≤ 20W	≤ 19W
Allowed max cable or busbar temperature	125°C	
INSULATION REQUIREMENTS		
Type	Dry transformer, air insulation	
Highest voltage for equipment U _m	0.72kV r.m.s.	
Rated insulation level	3kV r.m.s. 50Hz/1min	
Class of insulation (EN/IEC 61869-1, 61869-2)	B	
ENVIRONMENTAL CONDITIONS		
Nominal temperature range	-25÷50°C	
Storage temperature	-40÷85°C	
Relative humidity	≤ 85%	
Suitable for tropical climates	yes	
CONNECTION		
Primary winding	Passing bus bar	
Secondary winding:	tightening by nut M4	
MECHANICAL FEATURES		
Housing material	self extinguishing polycarbonate	
Protection degree (EN/IEC 60529)	IP40 housing - IP00 terminals (IP20 with sealable terminal cover)	
Mounting	screw type on bar	
Weight	750 gr	750 gr

Wiring diagrams



Dimensions



*Option B = Spacing device

Current transformers - MEASURE

Cable/passing bar single-phase current transformer



TAS102

TAS102B

Item				TAS102		
Vertical bar		Horizontal bar		Passing cable window/bar 38x102mm e 102x38mm - Long side terminals		
Isr 5A	Isr 1A	Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA	
					cl. 0.5	cl. 1
TAMP50C800	TAMP10C800	TAMP50C8003	TAMP10C8003	800A	8	10
TAMP50D100	TAMP10D100	TAMP50D1003	TAMP10D1003	1000A	10	12
TAMP50D120	TAMP10D120	TAMP50D1203	TAMP10D1203	1200A	12	15
TAMP50D125	TAMP10D125	TAMP50D1253	TAMP10D1253	1250A	12	15
TAMP50D150	TAMP10D150	TAMP50D1503	TAMP10D1503	1500A	12	15
TAMP50D160	TAMP10D160	TAMP50D1603	TAMP10D1603	1600A	12	15
TAMP50D200	TAMP10D200	TAMP50D2003	TAMP10D2003	2000A	20	25
TAMP50D250	TAMP10D250	TAMP50D2503	TAMP10D2503	2500A	20	25
TAMP50D300	TAMP10D300	TAMP50D3003	TAMP10D3003	3000A	20	25

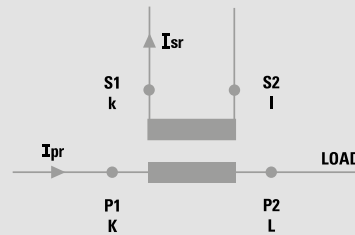
Item				TAS102B		
Vertical bar		Horizontal bar		Passing cable window/bar 54x102mm e 102x54mm - Long side terminals		
Isr 5A	Isr 1A	Isr 5A	Isr 1A	Primary current (A)	Accuracy class VA	
					cl. 0.5	cl. 1
TAMQ50C800	TAMQ10C800	TAMQ50C8003	TAMQ10C8003	800A	10	12
TAMQ50D100	TAMQ10D100	TAMQ50D1003	TAMQ10D1003	1000A	12	15
TAMQ50D120	TAMQ10D120	TAMQ50D1203	TAMQ10D1203	1200A	15	20
TAMQ50D125	TAMQ10D125	TAMQ50D1253	TAMQ10D1253	1250A	15	20
TAMQ50D150	TAMQ10D150	TAMQ50D1503	TAMQ10D1503	1500A	20	25
TAMQ50D160	TAMQ10D160	TAMQ50D1603	TAMQ10D1603	1600A	20	25
TAMQ50D200	TAMQ10D200	TAMQ50D2003	TAMQ10D2003	2000A	20	25
TAMQ50D250	TAMQ10D250	TAMQ50D2503	TAMQ10D2503	2500A	25	30
TAMQ50D300	TAMQ10D300	TAMQ50D3003	TAMQ10D3003	3000A	25	30
TAMQ50D320	TAMQ10D320	TAMQ50D3203	TAMQ10D3203	3200A	25	30
TAMQ50D400	TAMQ10D400	TAMQ50D4003	TAMQ10D4003	4000A	30	40

Accessories	
	Description
ATACOP04	Sealable terminal cover
ATAFIS01	2 screw type for wall mounting

Technical characteristics

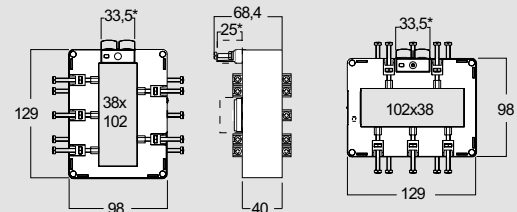
MODEL	TAS102	TAS102B
TECHNICAL CHARACTERISTICS		
Reference specification	EN/IEC 61869-1, 61869-2	
Rated primary current I _{pr}	800÷3000A	800÷4000A
Rated frequency	50Hz	
Working frequency	47÷63Hz	
Rated continuous thermal current I _{cth}	100% I _{pr}	
Corrente termica nominale di cortocircuito I _{th}	< 60I _{pr}	
Rated dynamic current	2,5I _{th}	
Instrument security factor (FS)	≤ 5	
Rated secondary current I _{sr}	5 - 1A	
Max. power dissipation	≤ 25W	≤ 25W
Temperatura max ammissibile su cavo a barra Primary winding	125°C	
INSULATION REQUIREMENTS		
Type	Dry transformer, air insulation	
Highest voltage for equipment U _m	0.72kV r.m.s.	
Rated insulation level	3kV r.m.s. 50Hz/1min	
Class of insulation (EN/IEC 61869-1, 61869-2)	B	
ENVIRONMENTAL CONDITIONS		
Nominal temperature range	-25÷50°C	
Storage temperature	-40÷85°C	
Relative humidity	≤ 85%	
Suitable for tropical climates	yes	
CONNECTION		
Primary winding	Passing bus bar	
Secondary winding	tightening by nut M4	
MECHANICAL FEATURES		
Housing material	self extinguishing polycarbonate	
Protection degree (EN/IEC 60529)	IP40 housing - IP00 terminals (IP20 with sealable terminal cover)	
Mounting	screw type on bar	
Weight	1000 gr	1200 gr

Wiring diagrams

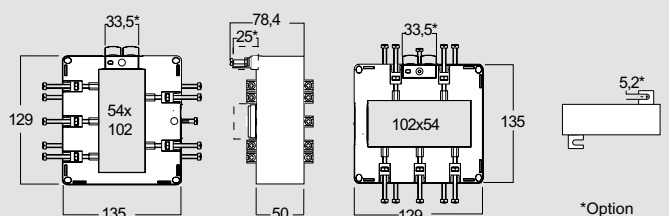


Dimensions

TAS102



TAS102B



Current transformers - MEASURE

Cable/passing bar single-phase current transformer



TAS127



TAS127B



Item				Primary current (A)	Accuracy class VA	
Vertical bar		Horizontal bar			cl. 0.5	cl. 1
Isr 5A	Isr 1A	Isr 5A	Isr 1A			
TASR50C400	TASR10C400	TASR50C4003	TASR10C4003	400A	-	3
TASR50C500	TASR10C500	TASR50C5003	TASR10C5003	500A	2	4
TASR50C600	TASR10C600	TASR50C6003	TASR10C6003	600A	4	6
TASR50C700	TASR10C700	TASR50C7003	TASR10C7003	700A	4	8
TASR50C750	TASR10C750	TASR50C7503	TASR10C7503	750A	4	8
TASR50C800	TASR10C800	TASR50C8003	TASR10C8003	800A	4	8
TASR50D100	TASR10D100	TASR50D1003	TASR10D1003	1000A	6	10
TASR50D120	TASR10D120	TASR50D1203	TASR10D1203	1200A	8	12
TASR50D125	TASR10D125	TASR50D1253	TASR10D1253	1250A	8	12
TASR50D150	TASR10D150	TASR50D1503	TASR10D1503	1500A	10	15
TASR50D160	TASR10D160	TASR50D1603	TASR10D1603	1600A	10	15
TASR50D200	TASR10D200	TASR50D2003	TASR10D2003	2000A	15	20
TASR50D250	TASR10D250	TASR50D2503	TASR10D2503	2500A	20	25
TASR50D300	TASR10D300	TASR50D3003	TASR10D3003	3000A	25	30
TASR50D320	TASR10D320	TASR50D3203	TASR10D3203	3200A	25	30
TASR50D400	TASR10D400	TASR50D4003	TASR10D4003	4000A	25	30

TAS127

Passing cable window/bar
38x127mm e 127x38mm -
Long side terminals

Item				Primary current (A)	Accuracy class VA	
Vertical bar		Horizontal bar			cl. 0.5	cl. 1
Isr 5A	Isr 1A	Isr 5A	Isr 1A			
TASS50C400	TASS10C400	TASS50C4003	TASS10C4003	400A	1	7
TASS50C500	TASS10C500	TASS50C5003	TASS10C5003	500A	3	10
TASS50C600	TASS10C600	TASS50C6003	TASS10C6003	600A	5	12
TASS50C700	TASS10C700	TASS50C7003	TASS10C7003	700A	8	15
TASS50C750	TASS10C750	TASS50C7503	TASS10C7503	750A	10	15
TASS50C800	TASS10C800	TASS50C8003	TASS10C8003	800A	10	15
TASS50D100	TASS10D100	TASS50D1003	TASS10D1003	1000A	12	20
TASS50D120	TASS10D120	TASS50D1203	TASS10D1203	1200A	15	25
TASS50D125	TASS10D125	TASS50D1253	TASS10D1253	1250A	15	25
TASS50D150	TASS10D150	TASS50D1503	TASS10D1503	1500A	20	30
TASS50D160	TASS10D160	TASS50D1603	TASS10D1603	1600A	20	30
TASS50D200	TASS10D200	TASS50D2003	TASS10D2003	2000A	25	30
TASS50D250	TASS10D250	TASS50D2503	TASS10D2503	2500A	30	50
TASS50D300	TASS10D300	TASS50D3003	TASS10D3003	3000A	30	50
TASS50D320	TASS10D320	TASS50D3203	TASS10D3203	3200A	30	50
TASS50D400	TASS10D400	TASS50D4003	TASS10D4003	4000A	30	50

TAS127B

Passing cable window/bar
54x127mm e 127x54mm -
Long side terminals

Accessories	
Description	
ATACOP04	Sealable terminal cover
ATADIS02	Spacing device for bars of 100 mm (for TAS127)
ATAFIS01	2 screw type for wall mounting

Technical characteristics

MODEL	TAS127	TAS127B
TECHNICAL CHARACTERISTICS		
Reference specification	EN/IEC 61869-1, 61869-2	
Rated primary current I _{pr}	400÷4000A	800÷4000A
Rated frequency	50Hz	
Working frequency	47÷63Hz	
Rated continuous thermal current I _{cth}	100% I _{pr}	
Corrente termica nominale di cortocircuito I _{th}	< 60I _{pr}	
Rated dynamic current	2,5I _{th}	
Instrument security factor (FS)	≤ 5	
Rated secondary current I _{sr}	5 - 1A	
Max. power dissipation	≤ 23W	≤ 23W
Allowed max cable or busbar temperature	125°C	

INSULATION REQUIREMENTS

Type	Dry transformer, air insulation
Highest voltage for equipment U _m	0.72kV r.m.s.
Rated insulation level	3kV r.m.s. 50Hz/1min
Class of insulation (EN/IEC 61869-1, 61869-2)	B

ENVIRONMENTAL CONDITIONS

Nominal temperature range	-25÷50°C
Storage temperature	-40÷85°C
Relative humidity	≤ 85%
Suitable for tropical climates	yes

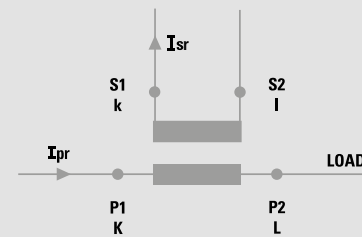
CONNECTION

Primary winding	Passing bus bar
Secondary winding	tightening by nut M4

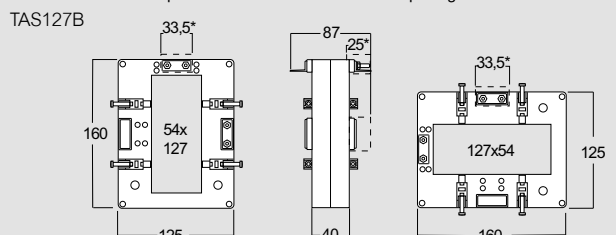
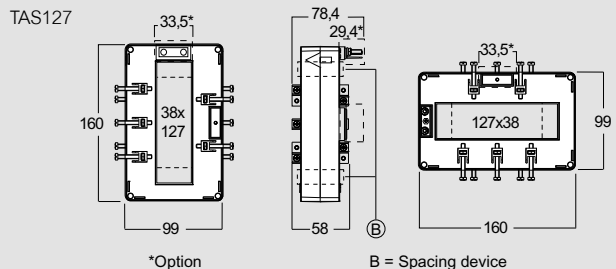
MECHANICAL FEATURES

Housing material	self extinguishing polycarbonate
Protection degree (EN/IEC 60529)	IP40 housing - IP00 terminals (IP20 with sealable terminal cover)
Mounting	screw type on bar
Weight	1500 gr 1300 gr

Wiring diagrams



Dimensions



Current transformers - MEASURE

Cable/passing bar single-phase current transformer



TAU9



TAU10



TAU11



TAU12



TAU13

Item	
Isr 5A	Isr 1A
TAUB50D250	TAUB10D250
TAUB50D300	TAUB10D300
TAUB50D400	TAUB10D400
TAUB50D500	TAUB10D500

TAU9

Passing cable window/bar 55x165mm

Primary current (A)	Accuracy class VA cl. 0.5
2500A	40
3000A	40
4000A	50
5000A	60

Item	
Isr 5A	Isr 1A
TAUE50D400	TAUE10D400
TAUE50D500	TAUE10D500
TAUE50D600	TAUE10D600
TAUE50D800	TAUE10D800

TAU12

Passing cable window/bar 55x225mm

Primary current (A)	Accuracy class VA cl. 0.5
4000A	50
5000A	60
6000A	70
8000A	70

Item	
Isr 5A	Isr 1A
TAUC50D250	TAUC10D250
TAUC50D300	TAUC10D300
TAUC50D400	TAUC10D400
TAUC50D500	TAUC10D500
TAUC50D600	TAUC10D600

TAU10

Passing cable window/bar 120x125mm

Primary current (A)	Accuracy class VA cl. 0.5
2500A	40
3000A	40
4000A	50
5000A	60
6000A	70

Item	
Isr 5A	Isr 1A
TAUF50D400	TAUF10D400
TAUF50D500	TAUF10D500
TAUF50D600	TAUF10D600
TAUF50D800	TAUF10D800

TAU13

Passing cable window/bar 120x225mm

Primary current (A)	Accuracy class VA cl. 0.5
4000A	50
5000A	60
6000A	70
8000A	70

Item	
Isr 5A	Isr 1A
TAUD50D300	TAUD10D300
TAUD50D400	TAUD10D400
TAUD50D500	TAUD10D500
TAUD50D600	TAUD10D600
TAUD50D800	TAUD10D800

TAU11

Passing cable window/bar 120x165mm

Primary current (A)	Accuracy class VA cl. 0.5
3000A	40
4000A	50
5000A	60
6000A	70
8000A	70

Item
ATACOP05

Accessories

Description
Sealable terminal cover

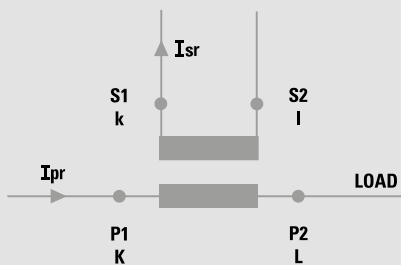
Current transformers - MEASURE

Cable/passing bar single-phase current transformer

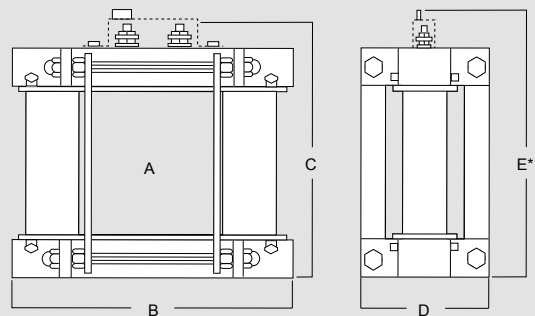
Technical characteristics

MODEL	TAU9	TAU10	TAU11	TAU12	TAU13
Technical characteristics					
Reference specification	EN/IEC 61869-1, 61869-2				
Rated primary current I _{pr}	2500÷5000A	2500÷6000A	3000÷8000A	4000÷8000A	4000÷8000A
Rated frequency	50Hz				
Working frequency	47÷63Hz				
Rated continuous thermal current I _{cth}	100% I _{pr}				
Rated short-time thermal current I _{th}	< 60I _{pr}				
Rated dynamic current	2,5I _{th}				
Instrument security factor (FS)	≤ 5				
Rated secondary current I _{sr}	5 - 1A				
Max. power dissipation	≤ 43W	≤ 43W	≤ 81W	≤ 75W	≤ 70W
Allowed max cable or busbar temperature	125°C				
INSULATION REQUIREMENTS					
Type	Dry transformer, air insulation				
Highest voltage for equipment U _m	0.72kV r.m.s.				
Rated insulation level	3kV r.m.s. 50Hz/1min				
Class of insulation (EN/IEC 61869-1, 61869-2)	B				
ENVIRONMENTAL CONDITIONS					
Nominal temperature range	-25÷50°C				
Storage temperature	-40÷85°C				
Relative humidity	≤ 85%				
Suitable for tropical climates	yes				
CONNECTION					
Primary winding	Passing bus bar				
Secondary winding	tightening by nut M5				
MECHANICAL FEATURES					
Housing material	self extinguishing polycarbonate				
Protection degree (EN/IEC 60529)	IP20 housing, IP00 terminals (IP20 with sealable terminal cover)				
Mounting	screw type on bar				
Weight	5000 gr	5700 gr	6700 gr	5000 gr	5000 gr

Wiring diagrams



Dimensions



* option

Dim. (mm)	A	B	C	D	E
TAU9	55x165	177	261	110	273.5
TAU10	120x125	257	221	110	233.5
TAU11	120x165	257	261	110	273.5
TAU12	55x225	177	321	110	333.5
TAU13	120x225	257	321	110	333.5