

BAR PRIMARY CURRENT TRANSFORMERS - TA SERIES



TA 38



TA301 with increased depth



TA 231

- Primary current from 100 to 8000 A
- For busbar up to 4 bars 160 x 5 mm
- Measurement and protection
- Increased depth
- Compact size

Moulded case current transformers for the measurement of AC currents from 100A to 8000A.

They are made of a non-flammable plastic material and have heavy insulation. This comprehensive and compact range fits most busbars, from 30mm to 160mm width.

Optional : voltage limiter to protect the current transformer, in case of open circuit operation

Technical data

Highest voltage for equipment	0.72 kV
Power-frequency withstand voltage	3 kV
Primary current I _{pn}	100 to 8000 A
Secondary current I _{sn}	5 or 1 A
Frequency	50 or 60 Hz
Rated output	1 to 60 VA
Accuracy class	0.5 - 1 - 3
Security factor	5 to 30
Continuous thermal current	1.2 I _{pn}
Short-time thermal current I _{th}	80 I _{pn} .1s
Dynamic current I _{dyn}	2.5 I _{th}
Insulation class	E
Ambient temperature	-25 °C to +40 °C
Case	Thermoplastic UL94 V0 or V1 or Bakelite
Standards	IEC - IEEE - CSA - AS - BS

Other characteristics on request

Highest voltage for equipment	Up to 2400 V
Power-frequency withstand voltage	Up to 11 kV
Secondary current I _{sn}	0.005 to 10 A
Frequency	1 to 10000 Hz
Accuracy class	0.1 - 0.2 - 0.2S - 0.5S - 5P - 10P - cIPX
Accuracy limit factor	5 - 10 - 15 - 20 - 30
Multi-ratio	On the whole range
Multiple cores	Up to 3 cores
Ambient temperature	-40 °C to +70 °C

Accessories / Options

Mounting brackets	EN type
Sealable terminal cover (IP20)	
S1 S2 terminals	On the larger side - Flying leads
Tropicalization	
Voltage limiter	90-200-450-600-1500V - See datasheet M2MA index 17

Selection table

Ip A	Type	Output maximum VA			Ip A	Type	Output maximum VA		
		cl 3	cl 1	cl 0.5			cl 3	cl 1	cl 0.5
100	TA30	10	1.25	-	1000	TA30	60	60	45
	TA201	5	1.25	-		TA201	45	30	20
	TA301	10	1.25	-		TA301	60	60	45
	TA401	15	2.5	-		TA401	60	60	60
	TA321	10	2.5	-		TA316	60	60	60
	TA231	5	1.25	-		TA321	60	45	45
TA34	10	1.25	-	TA231	45	30	20		
125	TA30	15	5	-	TA32	60	45	30	
	TA201	7.5	2.5	-	TA23	45	30	30	
	TA301	15	5	-	TA24	60	45	30	
	TA401	20	2.5	-	TA34	60	60	60	
	TA321	10	3.75	-	TA28	45	30	30	
	TA231	7.5	2.5	-	1250	TA30	60	60	45
TA34	10	3.75	1.25	TA201	45	30	30		
150	TA30	20	10	-	TA301	60	60	45	
	TA201	10	3.75	-	TA401	60	60	60	
	TA301	15	5	-	TA316	60	60	60	
	TA401	20	7.5	2.5	TA321	60	60	45	
	TA321	20	7.5	1.25	TA231	45	30	30	
	TA231	10	3.75	-	TA32	60	45	30	
TA34	15	5	2.5	TA23	60	45	30		
200	TA30	20	10	5	TA24	60	45	30	
	TA201	15	5	2.5	TA34	60	60	60	
	TA301	20	10	5	TA28	45	30	30	
	TA401	30	20	7.5	1500	TA30	60	60	45
	TA321	20	10	5	TA201	45	30	20	
	TA231	15	7.5	3.75	1750	TA301	60	60	45
TA34	20	10	5	TA401	60	60	60		
250	TA30	30	15	7.5	TA316	60	60	60	
	TA201	20	10	5	TA321	60	60	45	
	TA301	30	20	10	TA231	45	30	30	
	TA401	45	20	10	TA32	60	45	30	
	TA321	30	20	7.5	TA23	45	30	20	
	TA231	15	10	5	TA24	60	45	30	
TA34	30	10	5	TA34	60	60	60		
300	TA30	30	20	10	TA28	45	30	30	
	TA201	20	15	7.5	2000	TA401	60	60	60
	TA301	30	20	15	TA316	60	60	60	
	TA401	60	45	15	TA321	60	60	45	
	TA321	30	15	10	TA231	60	45	30	
	TA231	20	15	5	TA32	60	60	45	
TA34	30	20	10	TA321	60	60	45		
400	TA30	45	30	20	TA231	45	30	30	
	TA201	20	15	10	TA32	30	30	30	
	TA301	45	30	20	TA23	60	45	30	
	TA401	60	30	30	TA24	60	45	30	
	TA316	60	30	30	TA34	60	60	60	
	TA321	45	30	15	TA28	45	30	30	
TA231	20	15	5	TA38	60	60	60		
TA34	45	20	15	2500	TA316	60	60	45	
500	TA30	60	45	30	TA316	60	60	45	
	TA201	30	20	15	TA321	60	45	45	
	TA301	60	45	30	TA321	45	30	30	
	TA401	60	45	30	TA32	30	30	30	
	TA316	60	45	30	TA23	60	45	30	
	TA321	45	30	20	TA24	60	45	30	
TA231	30	20	15	TA34	60	60	60		
TA32	30	20	15	TA28	45	30	30		
TA23	30	20	10	TA36	60	60	60		
TA24	45	20	10	TA38	60	60	60		
TA34	60	45	30	TA312	60	60	60		
600	TA30	60	45	30	TA44	60	60	60	
	TA201	30	20	20	3000	TA316	60	60	60
	TA301	60	45	30	TA24	60	45	30	
	TA401	60	45	30	TA34	60	60	60	
	TA316	60	45	30	TA36	60	60	60	
	TA321	60	45	30	TA28	45	30	30	
TA231	30	20	15	TA38	60	60	60		
TA32	45	20	15	TA312	60	60	60		
TA23	30	30	15	TA44	60	60	60		
TA24	45	30	15	4000	TA24	60	45	30	
TA34	60	45	30	TA34	60	60	60		
750 or 800	TA30	60	45	30	TA36	60	60	60	
	TA201	45	30	20	TA28	45	30	30	
	TA301	60	60	45	TA312	60	60	60	
	TA401	60	60	45	TA44	60	60	60	
	TA316	60	60	45	5000	TA36	60	60	60
	TA321	60	45	30	TA38	60	60	60	
TA231	45	30	20	TA312	60	60	60		
TA32	45	45	30	TA44	60	60	60		
TA23	60	45	30	6000	TA36	60	45	30	
TA24	60	45	30	TA38	60	45	30		
TA34	60	45	30	TA312	60	45	60		
				TA44	60	60	60		
				7500 or 8000	TA312	60	60	60	

Dimensions

Busbar	Type	A	B	D	E	F	G	H	J	K	L	M	Poids (1)(2)
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
1 to 2 bars 50 x 5	TA30*	88	123	52	17	55	46	65	M 5	30	25	30	2
1 to 2 bars 63 x 5	TA201	70	118	65	17	52	35	54	M 5	23	25	30	2
1 to 2 bars 63 x 5	TA301	88	123	65	20	55	46	65	M 5	30	25	30	2
2 bars 63 x 10	TA401	109	139	67	37	54	58	82	M 5	36	29	20	2
3 bars 63 x 10	TA316	154	154	65	65	62	53	80	M 5	36	40	30	2.5
1 to 2 bars 80 x 5	TA321	87	144	83	21	65	46	65	M 5	34	50	30	2
1 to 3 bars 80 x 5	TA231	82	140	83	27	63	35	54	M 5	25	50	30	2
1 to 2 bars 100 x 5	TA32	92	169	105	20	73	48	72	M 5	34	65	20	2
1 to 3 bars 100 x 5	TA23	80	158	103	27	72	35	54	M 5	25	60	30	2
1 to 2 bars 100 x 10	TA24	97	164	103	38	75	40	59	M 5	28	60	30	2
1 to 2 bars 100 x 10	TA34	137	190	104	42	88	58	80	M 5	36	60	30	3
2 to 3 bars 100 x 10	TA36	156	199	105	62	80	60	89	M 5	38	65	30	4
2 to 3 bars 100 x 20	TA312	226	209	105	122	90,5	70	102	M 5	43	65	40	5
1 to 2 bars 125 x 10	TA28	100	190	127	38	88	40	59	M 5	30	80	30	3.5
1 to 3 bars 125 x 10	TA38	145	221	126	51	104	68	90	M 5	38	80	30	4
2 to 4 bars 160 x 5	TA44	142	265	165	42	119	60	90	M 5	41	100	30	5

*For reference only. Replaced with TA301

Dimensions G, H, K can vary according to electrical performance (spacer)

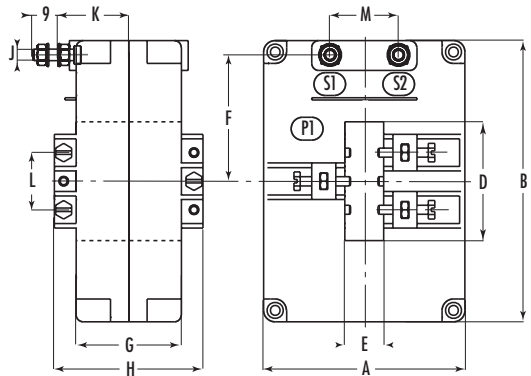
Remark: TA312 type can be fitted on two or three bars 120 x 20.

(1) Maximum weight for standard performance without extra thickness.

(2) In case of extra thickness, the weight vary. Contact us.

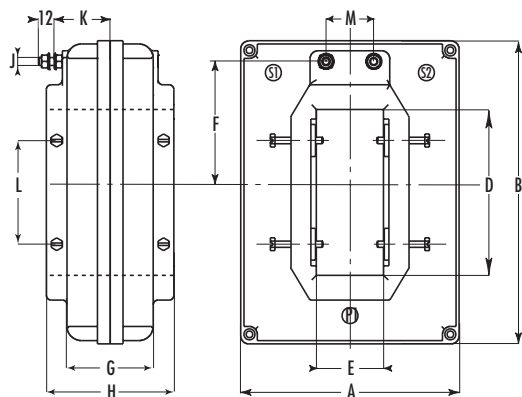
Thermoplastics

TA201 - TA301 - TA321 - TA231 - TA23 - TA24 - TA28 - TA34 - TA38



Thermoset

TA32 - TA36 - TA44 - TA312 - TA316 - TA401



Installation

- Bar fastening screws must be tightened to 0.7Nm torque maximum.
- M5 secondary terminal tightening torque = 2.5Nm