

« BUSHING » CURRENT TRANSFORMERS - B SERIES



- Indoor or outdoor
- Primary current from 50 to 60 000 A
- Inner diameter from 106 mm to 500 mm
- Measurement and protection

Current transformers moulded in self-extinguishing resin for the measurement of AC currents from 50 to 60000A.

With inner diameters between 106 and 500 mm, these transformers are often used on bushings of power transformers or on generator bushing insulators.

2 versions, indoor or outdoor, are available. The outdoor version is equipped with a weatherproof terminal box fitted with 2 cable glands.

Technical data

Highest voltage for equipment	0.72 kV
Power-frequency withstand voltage	3 kV
Primary current I _{pn}	50 to 60 000 A
Secondary current I _{sn}	5 or 1 A
Frequency	50 or 60 Hz
Rated output	1 to 500 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
Standards	IEC - IEEE - CSA - AS - BS

Other characteristics on request

Highest voltage for equipment	Up to 2 400 V
Power-frequency withstand voltage	Up to 11 kV
Secondary current I _{sn}	0.005 to 10 A
Frequency	1 to 10 000 Hz
Accuracy class	0.1 - 0.2 - 0.2S - 0.5S - 5P - 10P - cIPX
Accuracy limit factor	5 - 10 - 15 - 20 - 30
Multi-ratio	
Multiple cores	
Ambient temperature	- 40 °C to +70 °C

Accessories / Options

Weatherproof terminal cover (IP54)	Standard on outdoor version
Voltage limiter	90-200-450-600-1500V -See datasheet M2MA index17
ATEX directive	As part of an ATEX system

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Selection table

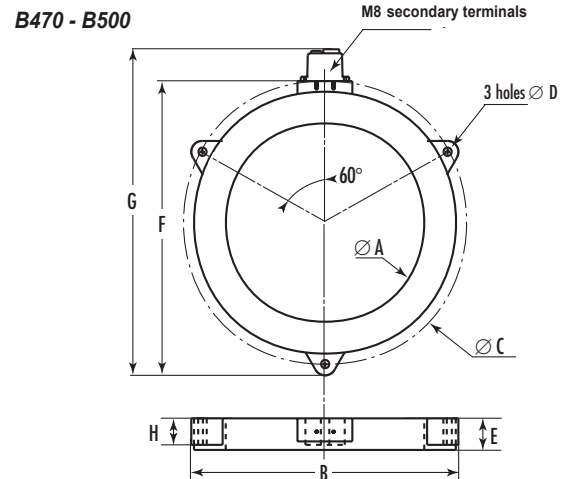
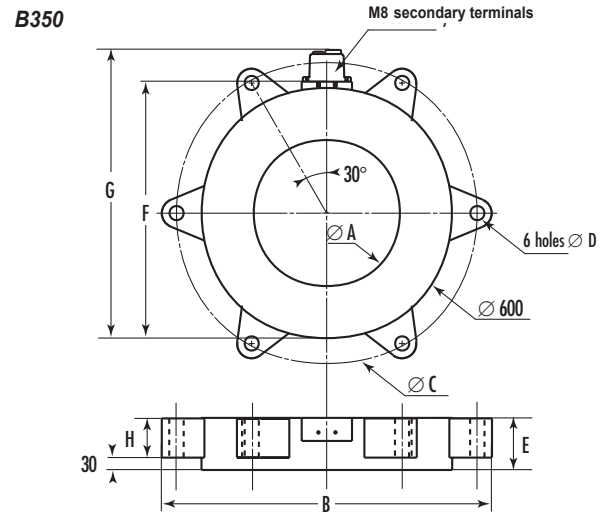
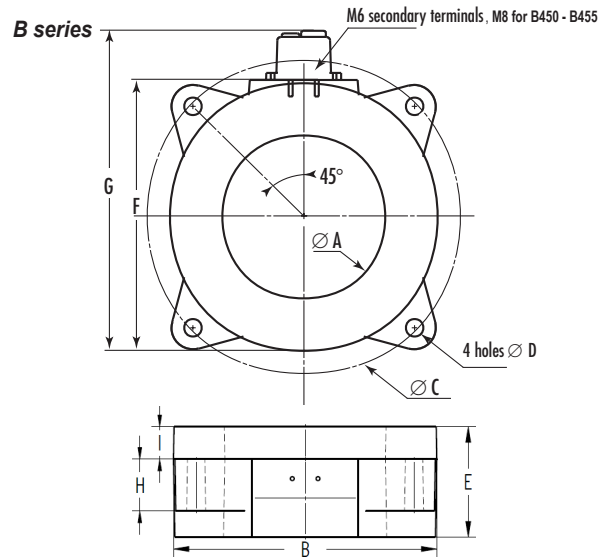
Ip A	Type	Output maximum VA		
		cl 3	cl 1	cl 0.5
50	B146	2.5	-	-
	B150	5	-	-
75	B146	5	-	-
	B150	10	-	-
100 or	B106	10	2.5	-
	B146	10	2.5	-
125	B150	15	5	5
	B198	10	-	-
150	B106	10	2.5	-
	B146	15	10	1.25
	B150	20	10	7.5
	B198	10	-	-
200	B106	20	10	5
	B146	30	15	2.5
	B150	45	15	10
	B198	15	2.5	-
300	B106	30	15	10
	B146	45	30	20
	B150	100	45	30
	B198	20	10	3.75
	B247	15	2.5	-
	B258	15	2.5	-
400	B106	60	40	20
	B146	60	40	30
	B150	100	60	45
	B198	45	15	7.5
	B247	20	5	-
	B258	20	5	-
500	B106	75	45	30
	B146	75	45	20
	B150	100	100	75
	B198	45	20	10
	B247	30	10	5
	B258	30	10	5
600	B106	75	45	30
	B146	100	45	30
	B150	100	100	100

Ip A	Type	Output maximum VA		
		cl 3	cl 1	cl 0.5
600	B198	60	30	15
	B247	45	15	7.5
	B258	45	15	7.5
750 or 800	B106	75	45	30
	B146	100	60	45
	B150	100	100	100
	B198	100	45	30
	B247	60	30	15
1000 to 3000	B258	60	30	15
	B106	75	45	30
	B146	100	75	60
	B150	200	100	100
4000 to 5000	B198	75	60	45
	B247	60	45	30
	B258	75	45	30
	B146	75	60	45
6000 to 8000	B198	75	60	45
	B247	75	60	45
	B258	75	60	45
	B258	75	60	45
9000 to 15000	B247	100	75	60
	B249	200	150	100
	B258	100	75	60
	B303	200	150	100
	B350	150	100	60
15000 to 30000	B470	150	100	60
	B350	150	100	75
	B450	300	250	200
	B470	150	100	75
30000 to 60000	B500	150	100	75
	B450	500	300	200
	B500	500	300	200

Dimensions

Type	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm
B106	6.5	106	226	240	12	60	236	316	60	0
B146	8.5	146	248	270	12	80	263	343	80	0
B146B	12	146	248	270	12	110	263	343	80	30
B146UL15	4	150	238	270	12	50	248	328	50	0
B198-150	21	150	298	338	12	65	302	382	65	0
B198-150B	26	150	298	338	12	80	302	382	65	15
B150	50	150	390	430	22	110	405	475	80	0
B198	8.5	198	298	338	12	65	312	392	65	0
B198B	10	198	298	338	12	80	312	392	65	0
B198C	14	198	298	338	12	110	312	392	110	0
B198D	26	198	298	338	12	170	312	392	170	0
B198F	31	198	298	338	12	200	312	392	200	0
B198G	34	198	298	338	12	220	312	392	220	0
B198H	39	198	298	338	12	250	312	392	250	0
B250-200	22.5	200	410	480	27	80	415	495	42	0
B250-200A	28	200	410	480	27	100	415	495	42	20
B250-200B	38	200	410	480	27	135	415	495	42	55
B150-220	35.5	220	390	430	22	110	405	475	80	0
B247	11	247	350	380	12	70	365	445	70	0
B250	17	250	410	480	27	70	415	495	42	0
B250B	19.5	250	410	480	27	80	415	495	42	0
B250C	30	250	410	480	27	121	415	495	80	1
B250D	60	250	410	480	27	240	415	495	80	120
B258	13	258	362	390	14	85	372	452	65	0
B150-300A	19	300	390	430	22	110	405	475	80	0
B150-300B	23	300	390	430	22	135	405	475	80	25
B303	35	303	489	566	28	80	505	585	70	0
B303B	43.5	303	489	566	28	100	505	585	70	20
B303C	52.5	303	489	566	28	120	505	585	70	20
B303D	83	303	489	566	28	190	505	585	70	20
B350	85	350	790	720	34	125	615	695	93.5	1.5
B450	95	450	690	760	30	140	720	795	140	0
B455	150	450	770	850	30	140	795	897	100	0
B470	28	470	640	670	20	75	696	776	63	0
B500	50	500	790	860	32	96	888	968	70	0

*Fixing by threaded inserts on the side. No fixing ears.



Installation

- Transformers must be installed on an even surface with no overhang
- It is necessary to put a spacer between each fixing lug and the support so as to arrange a gap of around 5 mm between the transformer and the support. Tightening must be done on the spacer. A flat washer is to be fitted between the spacer and fixing lug.
- If several transformers are to be placed on top of each other, provide intermediary spacers and washers between each fixing lug so that the transformers are kept 5 to 30 mm apart (please contacts us).
- Tighten the fixing nuts progressively and in diagonal order.
- It is advised to use non-magnetic materials for fixing the transformers
- Max tightening torque on M6 secondary terminals: 6Nm
- Max tightening torque on M8 secondary terminals: 10Nm