

INSTRUMENT TRANSFORMERS

SAB and SAB-D

Indoor current transformers



The SAB and SAB-D current transformers are designed for use in relaying and metering. Each type is available in two internal window diameter sizes, applicable to the current rating of the switchgear.

Product features

- 600 volt, indoor, 10 kV BIL
- 25-400 Hertz

Application

The SAB and SAB-D current transformers are designed for use in relaying and metering. Each type is available in two internal window diameter sizes, applicable to the current rating of the switchgear. The deeper case SAB-D is used when high burden relaying and metering is required.

Construction features

The ring-type core is insulated and toroidally wound with a fully distributed secondary winding. The protective case, made of an impact-resistant polycarbonate, is assembled using self-tapping screws.

Secondary terminals

Secondary terminals are 10-32 brass terminal screws with hardware. Space is available for a maximum of five terminals to accommodate multi-ratio designs.

Curves

Saturation, overcurrent, ratio correction factor, and phase-angle curves are available upon request.

Test reports

Test reports are stored electronically and can be e-mailed in various formats at the time of shipment.

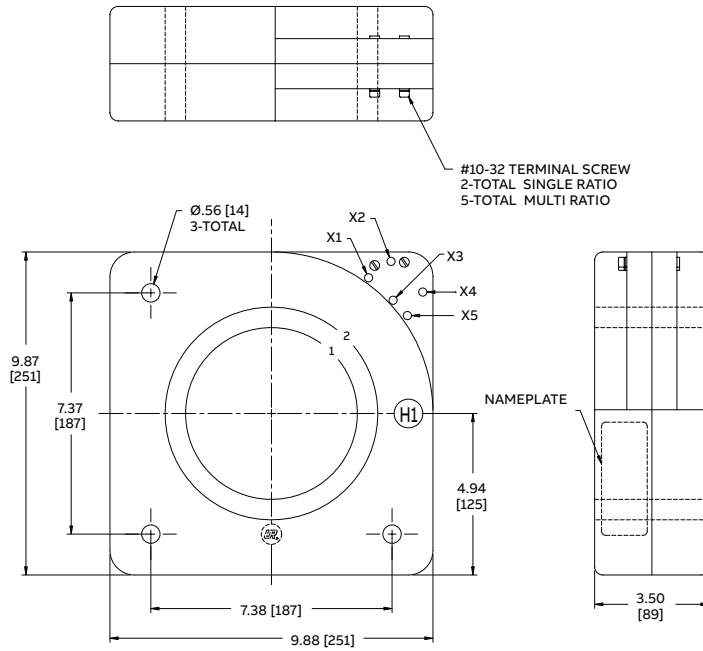
Standards

This unit meets or exceeds all requirements of IEEE C57.13-2016 and can be tested to other standards as requested.

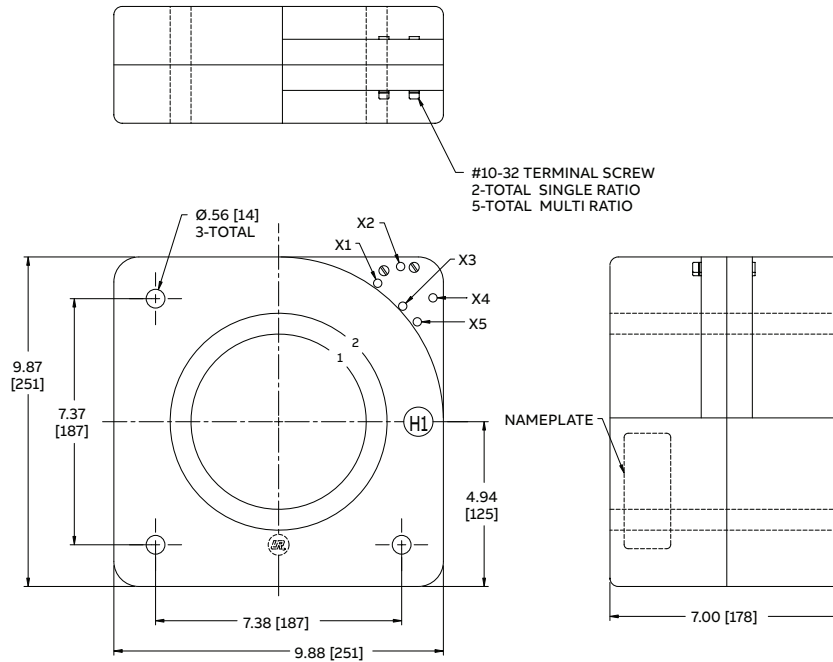
UL Recognized Component

The SAB and SAB-D are UL Recognized Components (file number E96461).

Dimensions (inches [mm])



SAB-1 and SAB-2



SAB-1D and SAB-2D

Type	Window size		Thickness		Approximate weight (lbs)
	(in)	(mm)	(in)	(mm)	
SAB-1	5.25	133	3.5	89	38
SAB-2	6.50	165	3.5	89	38
SAB-1D	5.25	133	7.0	178	65
SAB-2D	6.50	165	7.0	178	65

Selection guide for SAB-1 and SAB-2

Primary ampere rating	IEEE metering accuracy @ 60 Hz					IEEE relaying accuracy @ 60 Hz	Mechanical rating*	Thermal rating*	Continuous current rating factor		Style number
	B-0.1	B-0.2	B-0.5	B-0.9	B-1.8				30° C	55° C	
SAB-1 (5.25" window)											
50	2.4	4.8	-	-	-	C10	180	80	1.33	1.0	923A329G01-M
75	1.2	2.4	4.8	-	-	C10	180	80	1.33	1.0	923A329G02-M
100	1.2	2.4	4.8	-	-	C20	180	80	1.33	1.0	923A329G03-M
150	0.6	0.6	1.2	2.4	4.8	C20	180	80	1.33	1.0	923A329G04-M
200	0.3	0.3	0.6	1.2	2.4	C50	180	80	1.33	1.0	923A329G05-M
250	0.3	0.3	0.6	1.2	1.2	C50	180	80	1.33	1.0	923A329G06-M
300	0.3	0.3	0.3	1.2	1.2	C50	180	80	1.33	1.0	923A329G07-M
400	0.3	0.3	0.3	0.3	0.6	C100	180	80	1.33	1.0	923A329G08-M
500	0.3	0.3	0.3	0.3	0.6	C100	180	80	1.33	1.0	923A329G09-M
600	0.3	0.3	0.3	0.3	0.3	C100	180	80	1.33	1.0	923A329G10-M
800	0.3	0.3	0.3	0.3	0.3	C100	180	80	1.33	1.0	923A329G11-M
1000	0.3	0.3	0.3	0.3	0.3	C100	180	80	1.33	1.0	923A329G12-M
1200	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A329G13-M
1500	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A329G14-M
2000	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A329G15-M
2500	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A329G16-M
3000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A329G17-M
4000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A329G18-M
5000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.0	0.5	923A329G19-M
SAB-1 multi-ratio, IEEE, 5 terminals											
600	0.3	0.3	0.3	0.3	0.6	C100	180	80	1.33	1.0	923A329G20-M
1200	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A329G21-M
2000	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A329G22-M
3000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A329G23-M
4000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A329G24-M
5000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.0	0.5	923A329G25-M
SAB-2 (6.5" window)											
1500	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A330G01-M
2000	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A330G02-M
2500	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A330G03-M
3000	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A330G04-M
4000	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A330G05-M
5000	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.0	0.5	923A330G06-M
SAB-2 multi-ratio, IEEE, 5 terminals											
2000	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A330G07-M
3000	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A330G08-M
4000	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A330G09-M
5000	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.0	0.5	923A330G10-M

* times rated current

+ times rated current, one second

Additional styles available upon request (including 50 Hz). Contact your ABB sales representative or call +1-252-827-3212 for more information.

Selection guide: SAB-1D and SAB-2D

Primary ampere rating	IEEE metering accuracy @ 60 Hz					IEEE relaying accuracy @ 60 Hz	Mechanical rating*	Thermal rating*	Continuous current rating factor		Style number
	B-0.1	B-0.2	B-0.5	B-0.9	B-1.8				30° C	55° C	
SAB-1D (5.25" window)											
50	2.4	4.8	-	-	-	C20	180	80	1.33	1.0	923A331G01-M
75	1.2	2.4	4.8	-	-	C20	180	80	1.33	1.0	923A331G02-M
100	0.6	1.2	2.4	4.8	4.8	C50	180	80	1.33	1.0	923A331G03-M
150	0.3	0.6	1.2	1.2	2.4	C50	180	80	1.33	1.0	923A331G04-M
200	0.3	0.6	1.2	1.2	2.4	C100	180	80	1.33	1.0	923A331G05-M
250	0.3	0.3	0.6	0.6	1.2	C100	180	80	1.33	1.0	923A331G06-M
300	0.3	0.3	0.3	0.6	1.2	C100	180	80	1.33	1.0	923A331G07-M
400	0.3	0.3	0.3	0.3	0.6	C200	180	80	1.33	1.0	923A331G08-M
500	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A331G09-M
600	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A331G10-M
800	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A331G11-M
1000	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A331G12-M
1200	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A331G13-M
1500	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A331G14-M
2000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A331G15-M
2500	0.3	0.3	0.3	0.3	0.3	C800	180	80	1.33	1.0	923A331G16-M
3000	0.3	0.3	0.3	0.3	0.3	C800	180	80	1.33	1.0	923A331G17-M
4000	0.3	0.3	0.3	0.3	0.3	C800	180	80	1.33	1.0	923A331G18-M
5000	0.3	0.3	0.3	0.3	0.3	C800	180	80	1.0	0.5	923A331G25-M
SAB-1D multi-ratio, IEEE, 5 terminals											
600	0.3	0.3	0.3	0.3	0.3	C200	180	80	1.33	1.0	923A331G19-M
1200	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A331G20-M
2000	0.3	0.3	0.3	0.3	0.3	C800	180	80	1.33	1.0	923A331G21-M
3000	0.3	0.3	0.3	0.3	0.3	C800	180	80	1.33	1.0	923A331G22-M
4000	0.3	0.3	0.3	0.3	0.3	C800	180	80	1.33	1.0	923A331G23-M
5000	0.3	0.3	0.3	0.3	0.3	C800	180	80	1.0	0.5	923A331G24-M
SAB-2D (6.5" window)											
1500	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A332G01-M
2000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A332G02-M
2500	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A332G03-M
3000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A332G04-M
4000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A332G05-M
5000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.0	0.5	923A332G06-M
SAB-2D multi-ratio, IEEE, 5 terminals											
2000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A332G07-M
3000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A332G08-M
4000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.33	1.0	923A332G09-M
5000	0.3	0.3	0.3	0.3	0.3	C400	180	80	1.0	0.5	923A332G10-M

* times rated current

+ times rated current, one second

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