

Type RMB(X)-631

Indoor/outdoor current transformer

Product features

- Single, dual, and multi ratios
- 5 kV, 60 kV BIL, 60 Hertz
- Primary amperes: 200 - 4000
- Electrical clearances:
 - Creep: 5.5" (140 mm)
 - Strike: 4.63" (118 mm)
- Approximate weight: 100 lbs. (45 kg)

Application

The RMB(X)-631 indoor/outdoor, window-type current transformer is rated for use on 5,000 volt systems with 60 kV BIL. Primary current ratios are available from 200:5 to 4000:5 at 60 Hertz with a rating factor of up to 4.0. This dry-type, solid-cast current transformer will operate with high accuracy for metering or relay applications.

Mechanical description

The core and coil assembly is wound and encapsulated in a molded cast resin with a standard 3.44" window to provide high withstand capabilities. An optional primary bus bar with NEMA 4-hole pads can also be provided (4000 A max). The secondary terminals are ¼"-20 studs with associated hardware located inside a removable terminal box with two (2) 1" NPT conduit hubs.

Accuracy performance

The RMB-631 will operate with 0.3 class accuracy for metering with burdens of B-0.1 to B-1.8 and up to C800 for some relay applications. The transformer is accurate through its rating factor, and can be used continuously to this level.

The RMBX-631 will operate with 0.15 class high accuracy for metering applications with burdens of B-0.1 to B-1.8. The transformer maintains 0.3 accuracy from 1% of I_{nom} through its rating factor, and can be used continuously to this level (for 0.15 accuracy range, see ratings specific to each ratio).



Mounting

The RMB(X)-631 is designed for mounting in an upright, underhung, or cantilever position. Open end slots are provided on the aluminum mounting legs.

Testing

This unit can be tested to all applicable IEEE, CSA, or IEC standards as requested.

Options

The RMB(X)-631 is available with a primary bus bar kit. Contact factory for other needs.

RMB-631 selection guide

Ratio	IEEE metering accuracy	Relay accuracy	Rating factor	Style number*
200:5	0.3B-0.2	C100	3.0	B180200S1
300:5	0.3B-0.5	C200	3.0	B180300S1
400:5	0.3B-0.9	C250	3.0	B180400S1
500:5	0.3B-1.8	C300	3.0	B180500S1
600:5	0.3B-1.8	C400	3.0	B180600S1
800:5	0.3B-1.8	C400	2.0	B180800S1
1000:5	0.3B-1.8	C400	2.0	B181000S1
1200:5	0.3B-1.8	C400	2.0	B181200S1
1500:5	0.3B-1.8	C400	2.0	B181500S1
2000:5	0.3B-1.8	C400*	2.0	B182000S1*
2500:5	0.3B-1.8	C400*	2.0	B182500S1*
3000:5	0.3B-1.8	C400*	2.0	B183000S1*
4000:5	0.3B-1.8	C400*	2.0	B184000S1*
600:5 MR	0.3B-1.8	C400	2.0	B180600M1
1200:5 MR	0.3B-1.8	C400	2.0	B181200M1
2000:5 MR	0.3B-1.8	C400*	2.0	B182000M1*
3000:5 MR	0.3B-1.8	C400*	2.0	B183000M1*
4000:5 MR	0.3B-1.8	C400*	2.0	B184000M1*

Available in dual-ratio designs (ratings same as single ratio above, change style digit "S" to "D")

* Units can also be supplied with C800 ratings (add "-512" to the end of the style number)

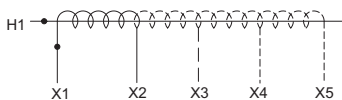
RMBX-631 selection guide

Ratio	0.15/0.3 @ burden	0.15/0.3 accuracy range	Rating factor	Style number
400:5	B-0.5/B-0.9	400/4 to 1200 A	3.0	B180400X1
500:5	B-0.5/B-1.8	500/5 to 2000 A	4.0	B180500X1
600:5	B-0.9/B-1.8	600/6 to 2400 A	4.0	B180600X1
800:5	B-0.9/B-1.8	800/8 to 3200 A	4.0	B180800X1
1000:5	B-1.8	10 to 4000 A	4.0	B181000X1
1200:5	B-1.8	12 to 4800 A	4.0	B181200X1
1500:5	B-1.8	15 to 4500 A	3.0	B181500X1
2000:5	B-1.8	20 to 4000 A	2.0	B182000X1

One second thermal/mechanical ratings: 80 x full winding I_{nom} / unlimited mechanical.

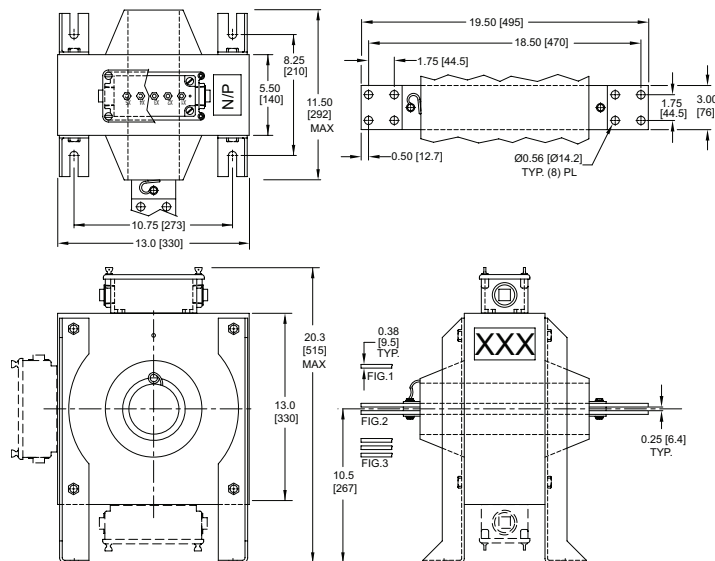
Available with a 19.5" primary bar kit (max 4000 A). Change last digit of style from 1 to 3.

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



Wiring diagram

Unit dimensions



RMB(X)-631

Note: Metric dimensions are displayed in [mm]

Ampacity	Figure
1200 A	Fig. 1
2500 A	Fig. 2
4000 A	Fig. 3

Continuous rating @ 30°C

Contact factory for higher ampacities or special bus configurations.

For more information please contact:

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