

Type DSM Current Transformer

600 Volt, 10 kV BIL, Indoor

Product Bulletin 1VAP428621-DB



ABB

Product Features

- 600 Volt Indoor
- 10 kV BIL
- 25 through 400 Hertz
- Primary Amperes 100-6000
- Mechanical Rating:
180 x rated current
- Thermal Rating:
Refer to table on page 4
- Continuous Current Rating Factor:
Refer to table on page 4
- UL Recognized Component;
File No. E96461



UL Recognized Component

Application

The DSM current transformer is dimensioned for bus structure mounting on Cutler Hammer DS circuit breakers for metering applications.

Construction Features

The DSM-16 and DSM-32 have a ring-type core that 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.

The DSM-40 has a ring-type core that is insulated and toroidally wound with a fully distributed secondary winding. The entire assembly is encapsulated in polyurethane.

Secondary Terminals

Secondary terminals are 10-32 brass terminal studs with hardware.

Curves

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

Test Reports

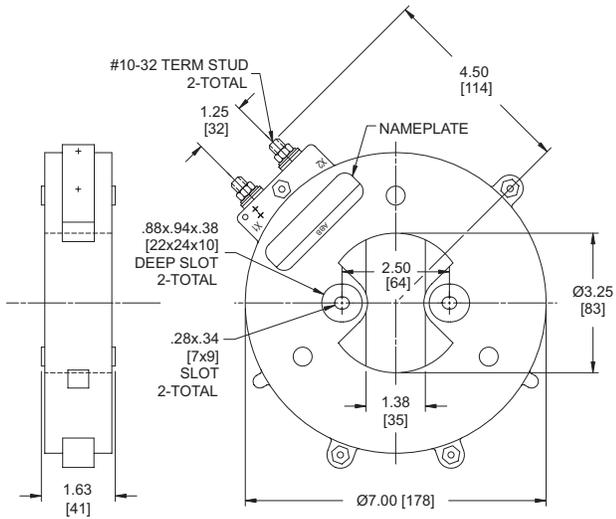
IEEE test reports are stored electronically and can be e-mailed in various formats at the time of shipment.

Standards

This unit meets all applicable IEEE and NEMA standards and is a UL Recognized Component.

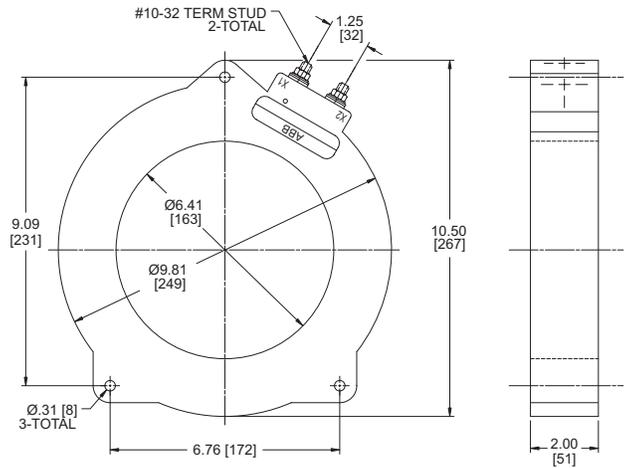
Unit Dimensions

Type DSM-16



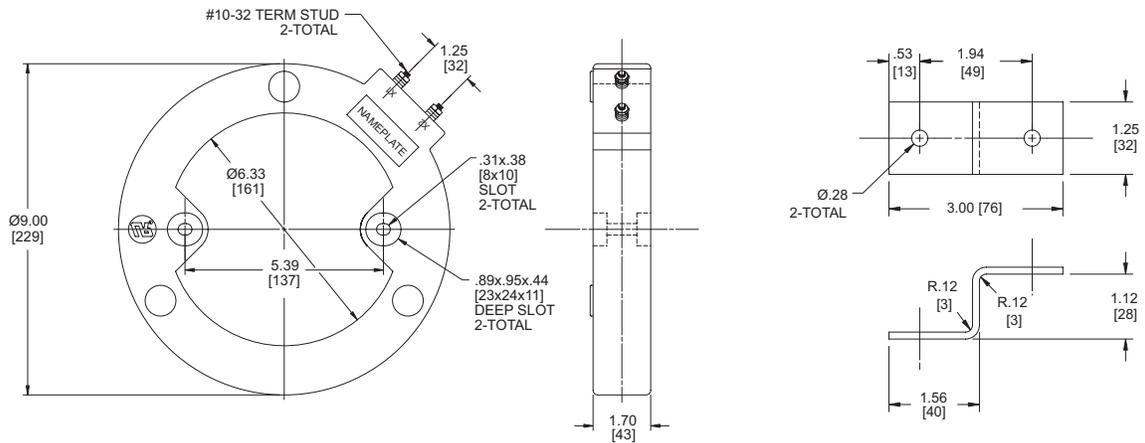
Approximate weight is 5 lbs.

Type DSM-40



Approximate weight is 7 lbs.

Type DSM-32 with Optional Mounting Feet



Approximate weight is 5.5 lbs.

Note: Mounting feet required on Phase B only.

Note: Metric dimensions are displayed in [mm].

Selection Guide

| Primary Ampere Rating | Continuous Current Rating | | IEEE Metering Accuracy | | | | | Thermal Rating* | Style Number |
|-------------------------------------|---------------------------|-------|------------------------|-------|-------|-------|-------|-----------------|--------------|
| | 30° C | 55° C | B-0.1 | B-0.2 | B-0.5 | B-0.9 | B-1.8 | | |
| Type DSM-16 (800-2000 A DS Breaker) | | | | | | | | | |
| 100 | 2.0 | 1.5 | 1.2 | - | - | - | - | 100 | 449D701G01 |
| 150 | 2.0 | 1.5 | 1.2 | - | - | - | - | 100 | 449D701G02 |
| 200 | 2.0 | 1.5 | 1.2 | 1.2 | - | - | - | 100 | 449D701G03 |
| 300 | 2.0 | 1.5 | 0.6 | 0.6 | 1.2 | 2.4 | - | 100 | 449D701G04 |
| 400 | 2.0 | 1.5 | 0.3 | 0.6 | 1.2 | 1.2 | - | 100 | 449D701G05 |
| 600 | 1.5 | 1.0 | 0.3 | 0.3 | 0.6 | 1.2 | 1.2 | 80 | 449D701G06 |
| 800 | 1.5 | 1.0 | 0.3 | 0.3 | 0.3 | 0.6 | 1.2 | 80 | 449D701G07 |
| 1200 | 1.33 | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 60 | 449D701G08 |
| 1500 | 1.33 | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 60 | 449D701G18 |
| 1600 | 1.33 | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 60 | 449D701G09 |
| 2000 | 1.33 | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 60 | 449D701G10 |
| Type DSM-32 (3200 A DS Breaker) | | | | | | | | | |
| 2400 | 1.33 | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 60 | 449D701G11 |
| 2500 | 1.33 | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 60 | 449D701G14 |
| 3000 | 1.33 | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 60 | 449D701G15 |
| 3200 | 1.33 | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 60 | 449D701G12 |
| 4000 | 1.33 | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 60 | 449D701G13 |
| Type DSM-40 (4000 A DS Breaker) | | | | | | | | | |
| 4000 | 1.33 | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 60 | 151D026G01 |
| 5000 | 1.33 | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 60 | 151D026G02 |
| 6000 | 1.33 | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 60 | 151D026G03 |

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

* times normal, 1 second

Optional Accessories

- Mounting Feet 809A495H01



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