

Telpower® Compact Fused Disconnect Switch

TPC & TPCDS

TPC & TPCDS

TPCDS - Telpower® Compact Fused Disconnect Switch

TPC - Telpower® Compact Fuse - Current Limiting

Ampere Ratings: 3-125A

Available Ratings: 3, 4, 5, 6, 7, 8, 10, 12, 15, 20, 25, 30, 40, 50, 60, 75, 90, 100, 125A

Voltage Rating: 80Vdc

Interrupting Rating: 100,000A

Agency Information: **CE**

UL Recognized (investigated to UL 1801) as a disconnect switch for the interruption of load current by means of withdrawing the fuse pullout.

Recognized to U.S. and Canadian requirements under the component recognition program of Underwriters Laboratories Inc.

Files E219046 and E56412.



General Information:

- Fusible solution for replacement of existing dc Telecom circuit breakers.
- Compact size fused disconnect switch.
- AmpColor ID™ System for easy fuse replacement.
- Available in two disconnect switch profiles in addition to a variety of terminal styles.
- Local and remote open fuse indication.  
Local alarm indication provided by LED on TPC fuse.
- Remote alarm terminal available in three positions commonly found in dc circuit protection devices.
- Recommended .75 inch center-to-center product spacing.
- Current-limiting capability
- Complete system coordination capability.
- Highest interrupting rating (100,000A) available for dc circuit protection of this footprint.
- No venting of arc or molten metals and gases during fuse opening.
- Fuse material: Black thermoplastic, UL rated 94 V-O, 170° C RTI.
- Housing material: Black thermoplastic, UL rated 94 V-O, 120° C RTI.

**CE** CE logo denotes compliance with European Union Low Voltage Directive (50-1000Vac, 75-1500Vdc). Refer to Data Sheet: 8002 or contact Bussmann Application Engineering for more information.

Catalog Number	Description	Ampere Rating
TPC-3	Compact Fuse	3A
TPC-4	Compact Fuse	4A
TPC-5	Compact Fuse	5A
TPC-6	Compact Fuse	6A
TPC-7	Compact Fuse	7A
TPC-8	Compact Fuse	8A
TPC-10	Compact Fuse	10A
TPC-12	Compact Fuse	12A
TPC-15	Compact Fuse	15A
TPC-20	Compact Fuse	20A
TPC-25	Compact Fuse	25A
TPC-30	Compact Fuse	30A
TPC-40	Compact Fuse	40A
TPC-50	Compact Fuse	50A
TPC-60	Compact Fuse	60A
TPC-75	Compact Fuse	75A
TPC-90	Compact Fuse	90A
TPC-100	Compact Fuse	100A
TPC-125	Compact Fuse	125A
TPCDS-BBE-1	Compact Disconnect	3-125A
TPCDS-BBE-2	Compact Disconnect	3-125A
TPCDS-BBE-3	Compact Disconnect	3-125A
TPCDS-BBM-1	Compact Disconnect	3-125A
TPCDS-BBM-2	Compact Disconnect	3-125A
TPCDS-BBM-3	Compact Disconnect	3-125A
TPCDS-BSE-1	Compact Disconnect	3-125A
TPCDS-BSE-2	Compact Disconnect	3-125A
TPCDS-BSE-3	Compact Disconnect	3-125A
TPCDS-BSM-1	Compact Disconnect	3-125A
TPCDS-BSM-2	Compact Disconnect	3-125A
TPCDS-BSM-3	Compact Disconnect	3-125A
TPCDS-SSE-1	Compact Disconnect	3-125A
TPCDS-SSE-2	Compact Disconnect	3-125A
TPCDS-SSE-3	Compact Disconnect	3-125A
TPCDS-SSM-1	Compact Disconnect	3-125A
TPCDS-SSM-2	Compact Disconnect	3-125A
TPCDS-SSM-3	Compact Disconnect	3-125A
TPCDS-D-BC1*	Compact Disconnect	3-125A
TPCDS-D-BC2*	Compact Disconnect	3-125A
TPCDS-D-CC1*	Compact Disconnect	3-125A
TPCDS-D-SEC1*	Compact Disconnect	3-125A
TPCDS-D-SEC2*	Compact Disconnect	3-125A
TPCDS-D-SMC1*	Compact Disconnect	3-125A
TPCDS-D-SMC2*	Compact Disconnect	3-125A

\*Not investigated to Canadian Requirements.

# Telpower® Compact Fused Disconnect Switch

# TPC & TPCDS

## Compact Fused Disconnect Switch

- Bullet and / or stud terminals for line and load connections (1.940 inch / 49.3 mm spacing).
- Front access with bullet terminals.  
Rear access with stud terminals.
- Three terminal style configurations available (see below).
- Remote alarm terminal available in three positions common to dc circuit protection devices.

### Part Number System --

#### Compact Fused Disconnect Switch

To identify part number, replace block with appropriate suffix to identify line and load terminals, thread type, and alarm terminal distance.

#### TPCDS - TELPOWER® Compact Fused Disconnect Switch



#### Terminal Style (select one)

- BB - Bullet contact on the line  
Bullet contact on the load
- BS - Bullet contact on the line  
Stud terminal on the load
- SS - Stud terminal on the line  
Stud terminal on the load

#### Thread (select one)

- M - Metric threads for panel mount fasteners (M3) and stud (M5)
- E - English threads for panel mount fasteners (6-32) and stud (10-32)

#### Remote Alarm Terminal Distance (select one)

- 1 - .645 inch from line terminal
- 2 - .970 inch from line terminal
- 3 - 1.285 inch from line terminal

## DIN Rail Fused Disconnect Switch

- 35mm DIN rail mountable
- Front access.
- Three terminal style configurations available (see below).
- Screw clamp accepts 10 to 1 AWG (6mm<sup>2</sup> - 50mm<sup>2</sup>) wire.
- Two remote alarm terminal positions available.

### Part Number System --

#### DIN Rail Fused Disconnect Switch

To identify part number, replace block with appropriate suffix to identify line and load terminals, thread type if applicable, and alarm terminal option.

#### TPCDS - TELPOWER® Compact Fused Disconnect Switch D - DIN-Rail style product



#### Terminal Style (select one)

- CC - Screw Clamp terminal on the line  
Screw Clamp terminal on the load
- BC - Bullet contact on the line  
Screw Clamp terminal on the load
- SEC - Stud terminal on the line  
English threads for stud (10-32)  
Screw Clamp terminal on the load
- SMC - Stud terminal on the line  
Metric threads for stud (M5)  
Screw Clamp terminal on the load

#### Remote Alarm Terminal Location (select one)

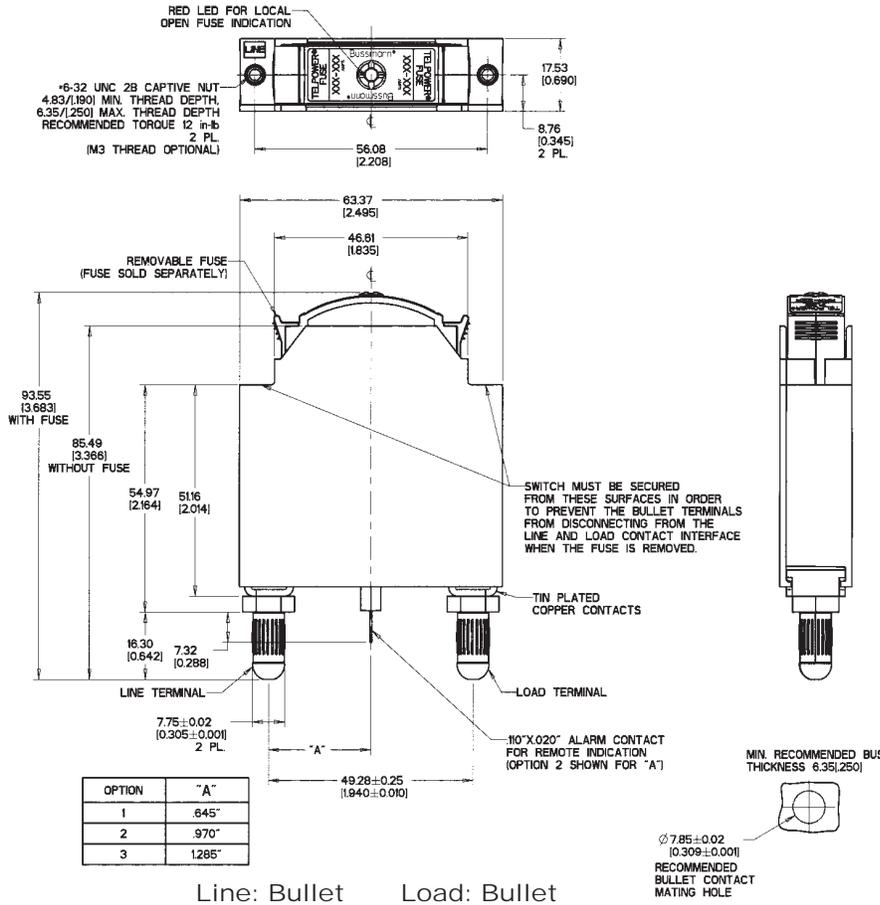
- 1 - Side output  
(available on CC and BC terminal styles)
- 2 - Bottom output, .970 inch from line terminal  
(available on BC terminal style only)

The only controlled copy of this Data Sheet is the electronic read-only version located on the Bussmann Network Drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

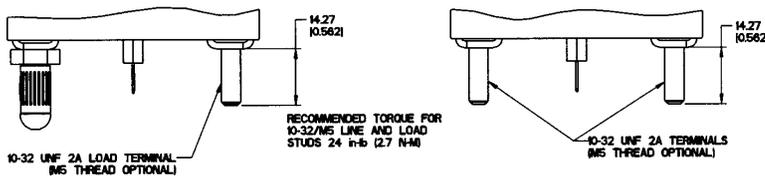
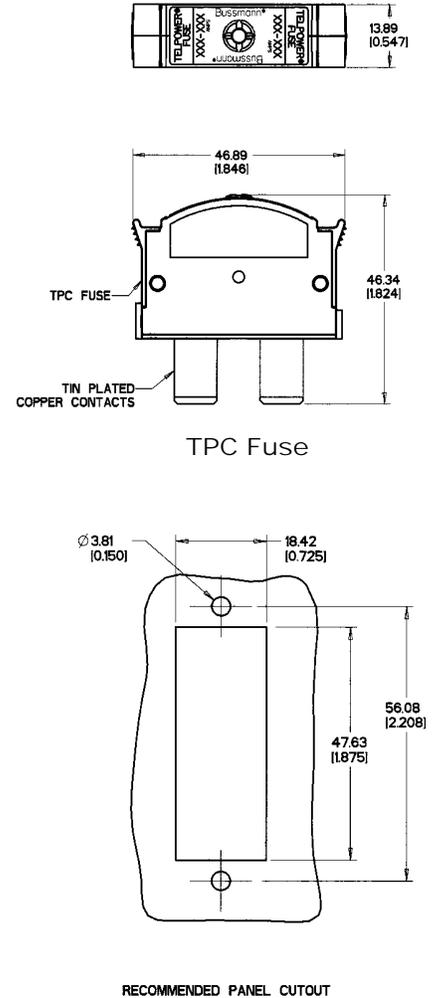
Telpower® Compact Fused Disconnect Switch

TPC & TPCDS

TPCDS Terminal Styles  
Compact Fused Disconnect Switch



Line: Bullet Load: Bullet

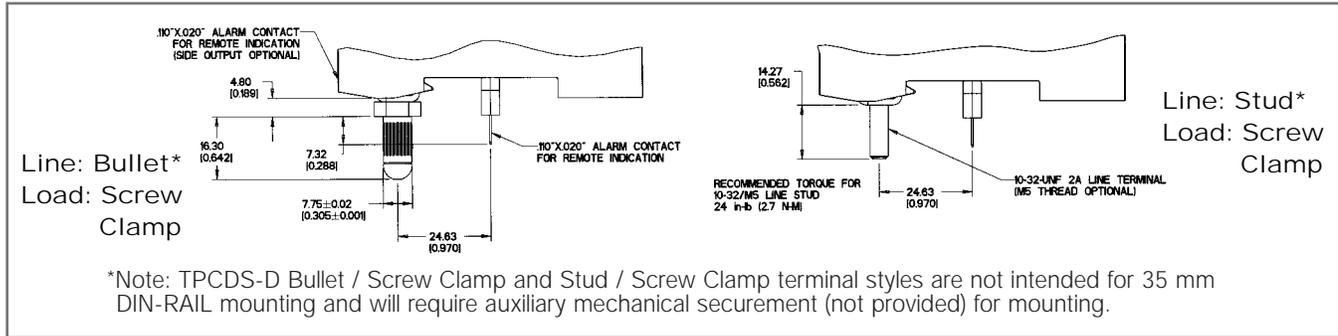
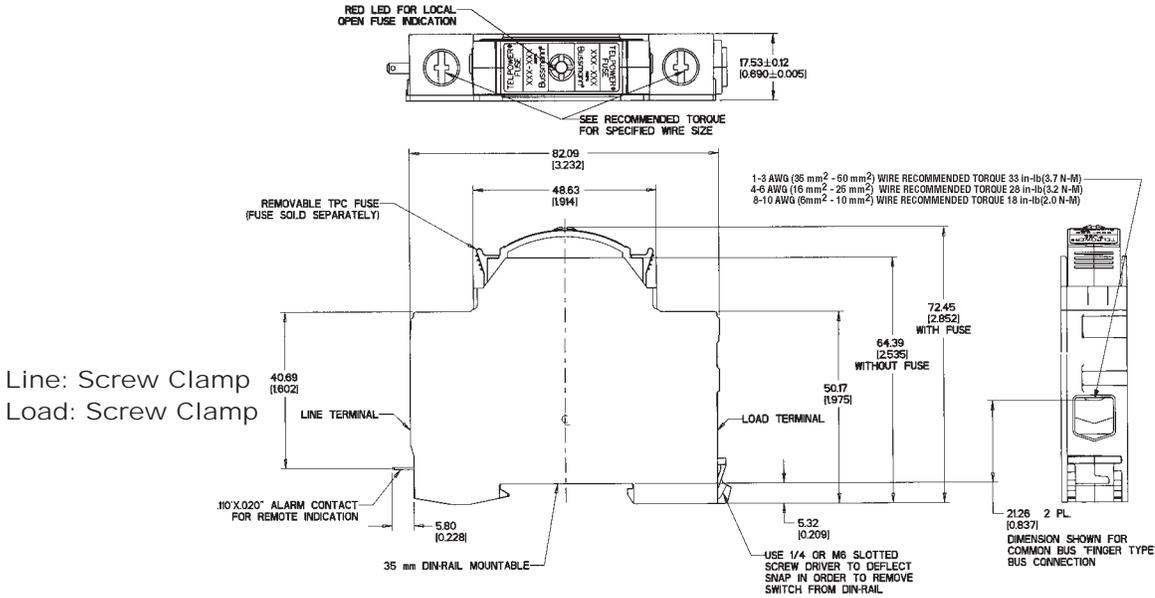


Line: Bullet Load: Stud      Line: Stud Load: Stud

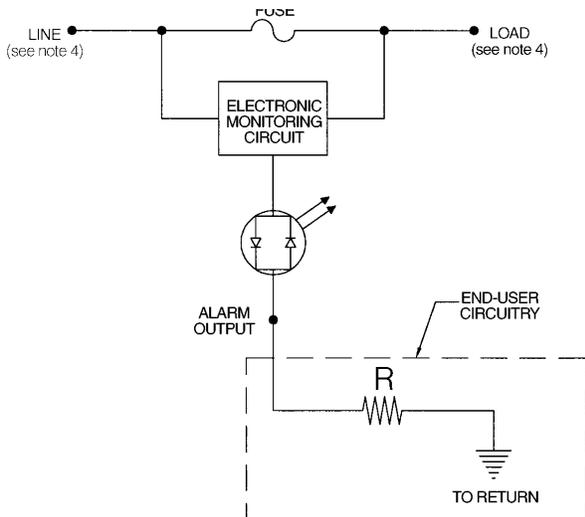
Telpower® Compact Fused Disconnect Switch

TPC & TPCDS

TPCDS-D Terminal Styles  
DIN Rail Fused Disconnect Switch



Alarm Schematic



NOTES:

1. The Electronic Monitoring Circuit (EMC) is a high input impedance device that will provide alarming for an open-fuse condition.
2. Typical leakage current through the load when the EMC is operational  $\leq 2$  mA.
3. The resistance, R, must be provided by the end-user to limit the alarm output current to a maximum of 20 mA. The value, R, should be calculated using the system voltage value.
  - If remote alarm functionality is not required, the END-USER CIRCUITRY must still be supplied to provide a resistive path to the return for the local alarm to properly function.
4. The fuse is polarized to maintain proper orientation with the switch housing. The line and load terminals are identified on the switch housing.
5. Electrical integrity of the load must be maintained after fuse has opened in order for the local and remote alarm to properly function.

### AmpColor ID™ System

**Bussmann®**  
**TELPOWER®**  
Technology

Use This Chart to  
Manage Your  
Telpower®  
Fused Disconnect  
Switches.

Welcome to the AmpColor ID™ System. Please reference this chart to determine which replacement Telpower fuse is needed.

Each amp rating is represented by a specific color or combination of colors.

Please place matching AmpColor label on panel to identify ampere position. For use with Telpower® TPC fuses and TPM fuses.

**COOPER Bussmann**

For the latest product information and updates visit  
[www.telpoweronline.com](http://www.telpoweronline.com)

Chart Reorder no. 3A0347

3A	25A
4A	30A
5A	40A
6A	50A
7A	60A
8A	75A
10A	90A
12A	100A
15A	125A
20A	TELPOWER® Technology

AmpColor ID™ System for Telpower® TPC and TPM fuses.

**Bussmann®** 9-01-5M

AmpColor ID™ Chart included with each box of ten TPC fuses.



TPC Fuses: 3-125A  
TPM Fuses: 3-30A

Reference Data Sheet: 5022 for TPM fuse specifications.

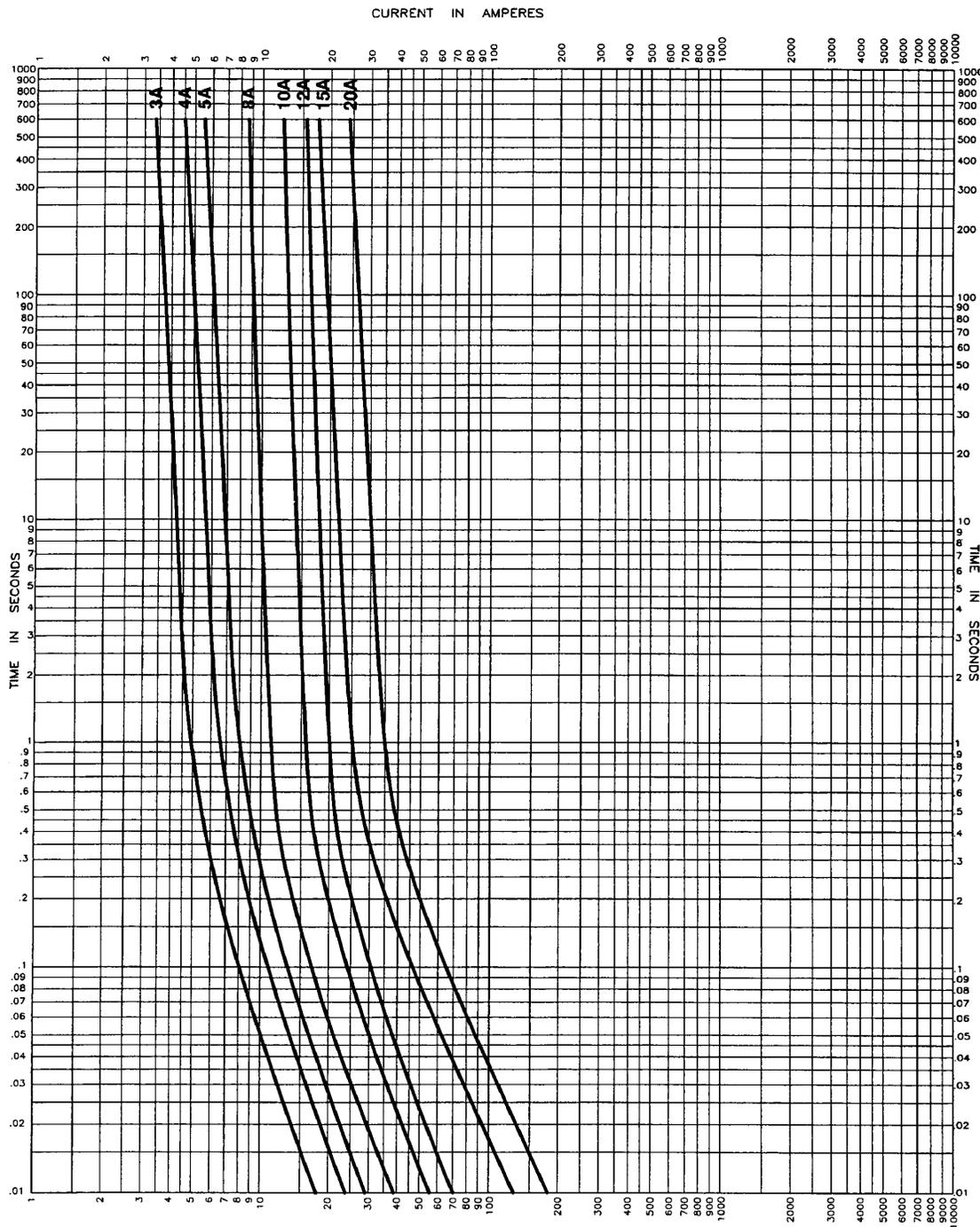
Twelve AmpColor ID™ tags included with each box of ten TPC fuses.

Telpower's AmpColor ID™ System Is Easy to Use. Each Amp rating is represented by a specific color. Simply label new or existing panels with the appropriate AmpColor tags and post the AmpColor chart nearby. Personnel can quickly and accurately reference the chart for the appropriate replacement fuse.

AmpColor ID™ tags

Telpower® Compact Fused Disconnect Switch

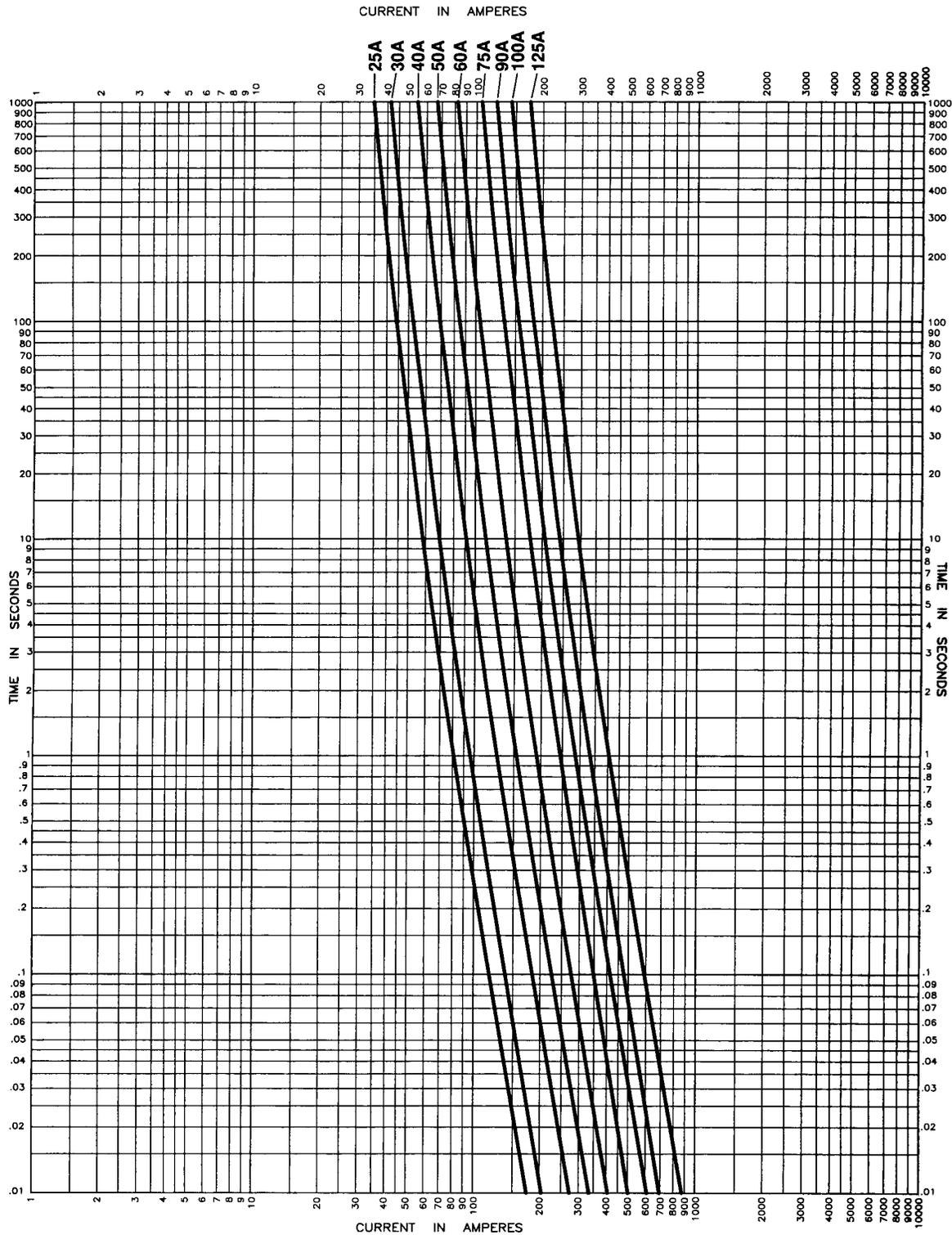
TPC & TPCDS



Time-Current Characteristic Curve—Average Melt - 3-20 Amp

Telpower® Compact Fused Disconnect Switch

TPC & TPCDS



Time-Current Characteristic Curve—Average Melt - 25-125 Amp

The only controlled copy of this Data Sheet is the electronic read-only version located on the Bussmann Network Drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.