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

TPCDS - □□□ - □

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^2 - 50mm^2) 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

TPCDS - D - □□□□

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

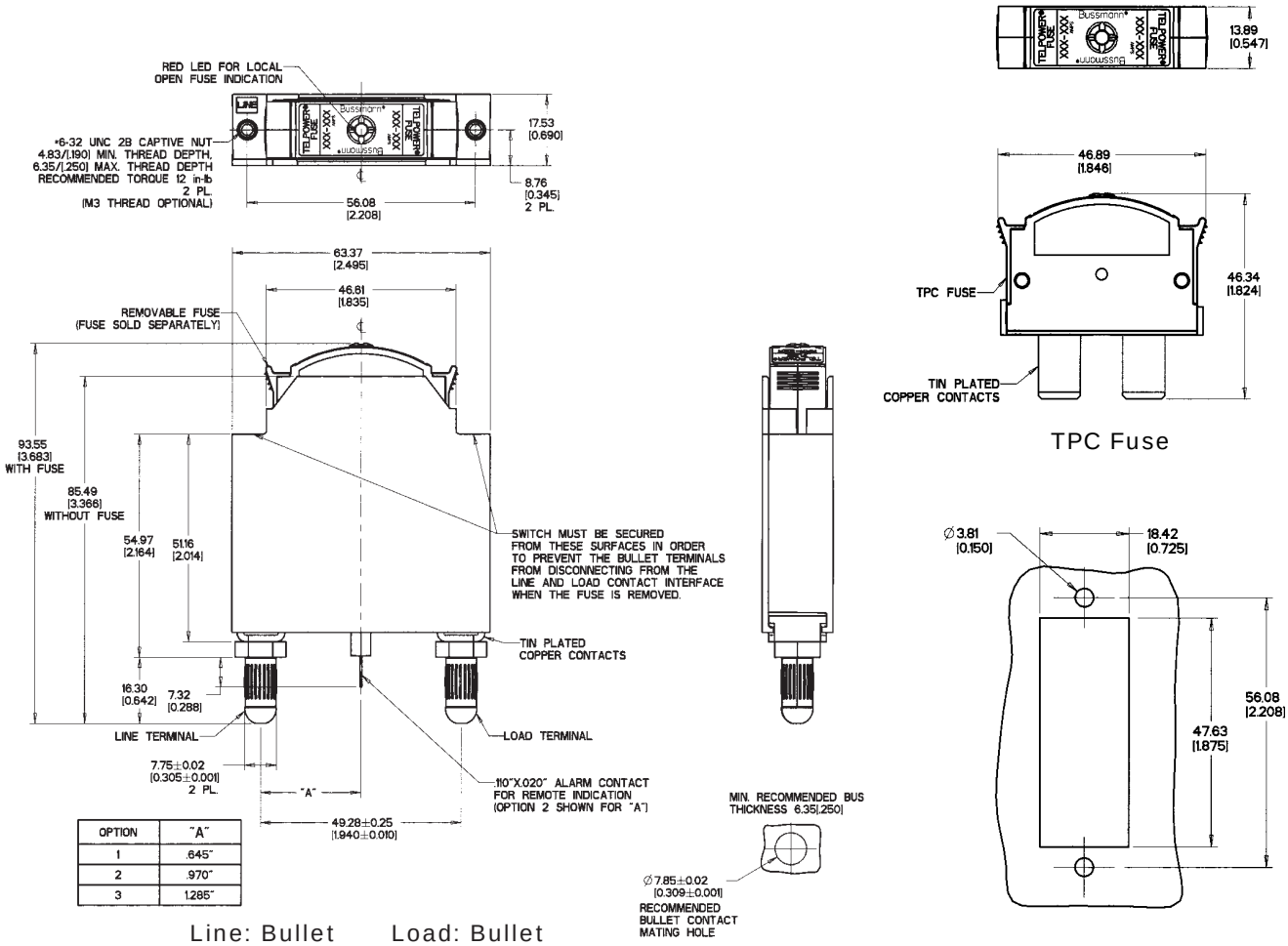
Remote Alarm Terminal Location (select one)

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

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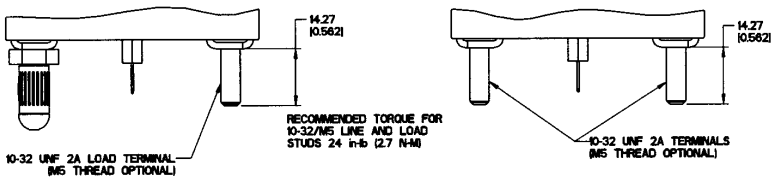
TPCDS Terminal Styles

Compact Fused Disconnect Switch



OPTION	"A"
1	.645"
2	.970"
3	1.285"

Line: Bullet Load: Bullet

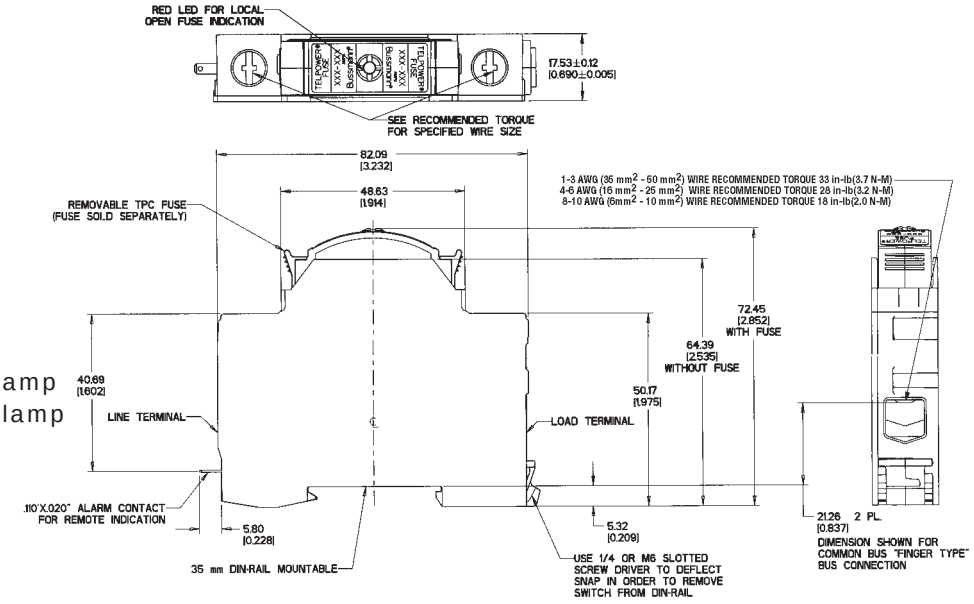


Line: Bullet Load: Stud Line: Stud Load: Stud

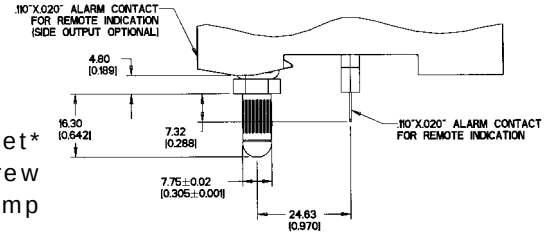
TPCDS-D Terminal Styles

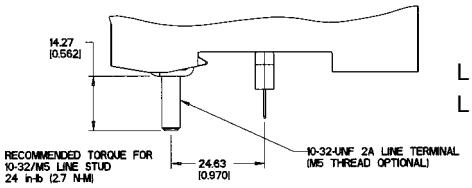
DIN Rail Fused Disconnect Switch

Line: Screw Clamp
Load: Screw Clamp



Line: Bullet*
Load: Screw Clamp

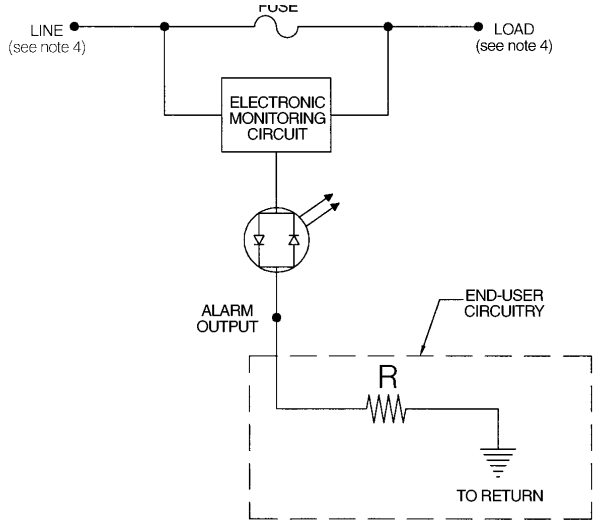




Line: Stud*
Load: Screw Clamp

*Note: TPCDS-D Bullet / Screw Clamp and Stud / Screw Clamp terminal styles are not intended for 35 mm DIN-RAIL mounting and will require auxiliary mechanical securement (not provided) for mounting.

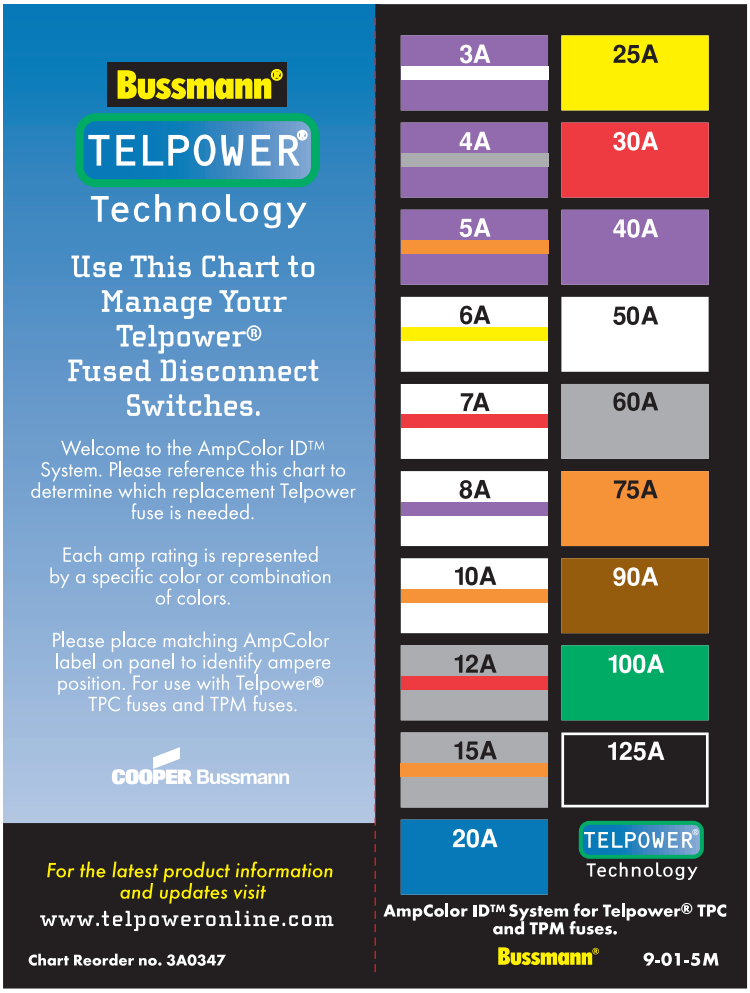
Alarm Schematic



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 ≤ 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



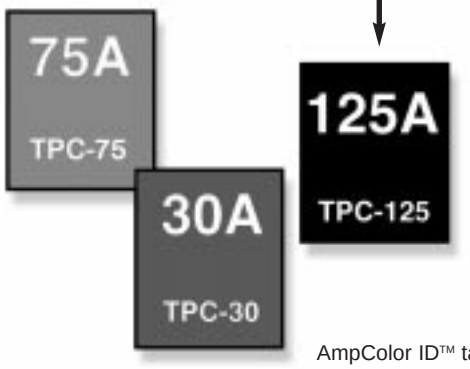
AmpColor ID™ Chart included with each box of ten TPC fuses.

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

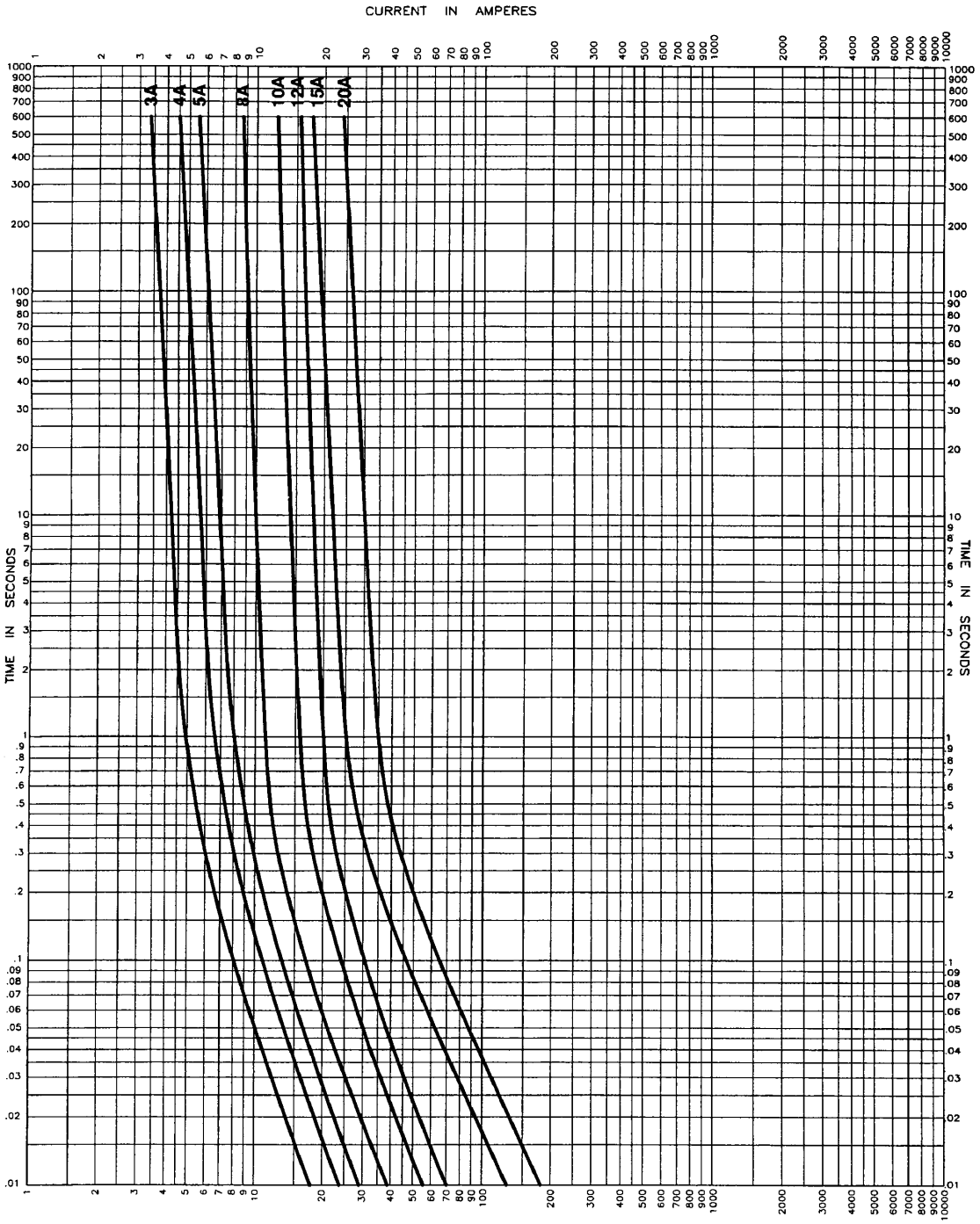
Reference Data Sheet: 5022 for TPM fuse specifications.

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

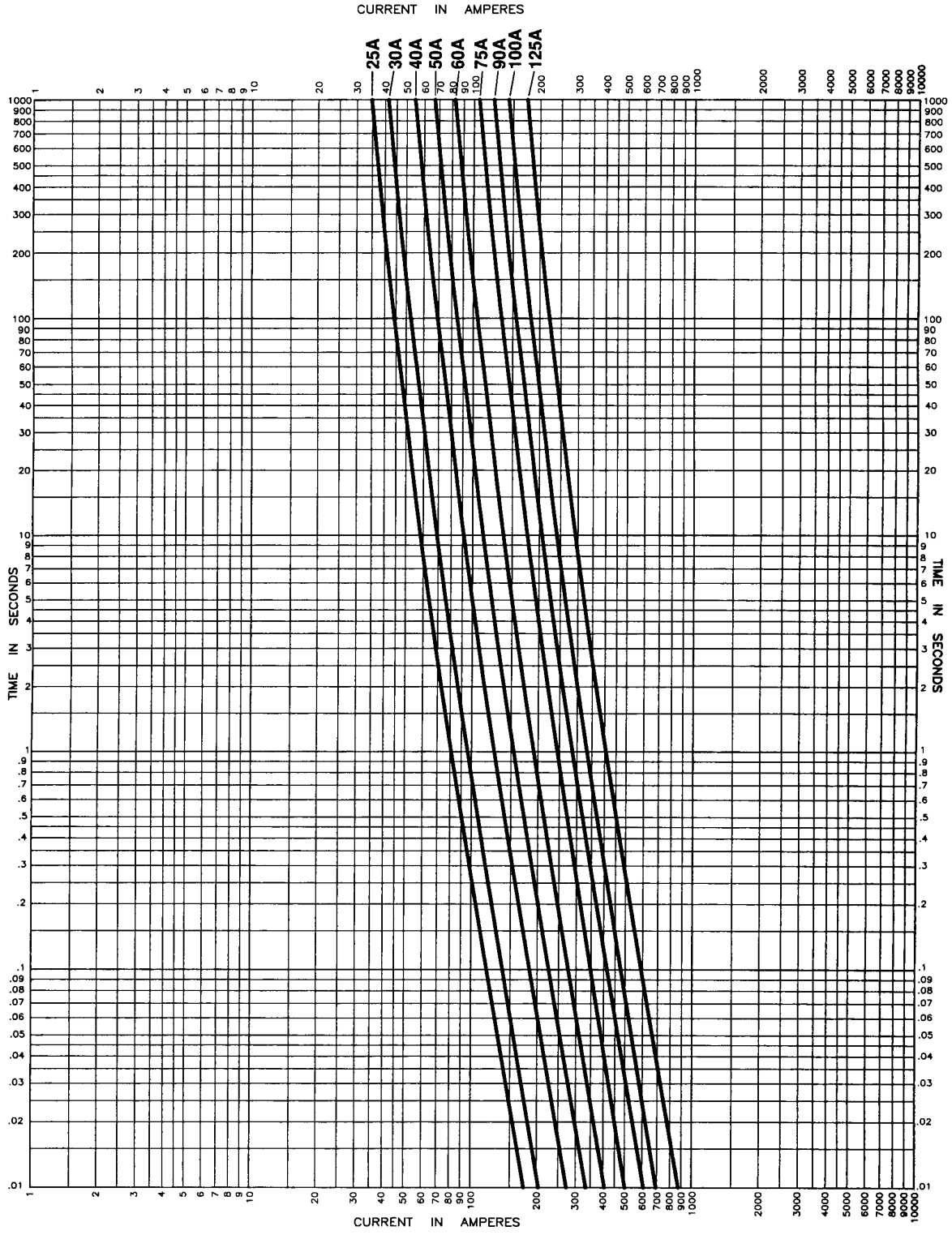
Telpower's AmpColor ID™ System Is Easy to Use. Each Amp rating is represented by a specific color. Simply label new or existing panels with the appropriate AmpColor tags and post the AmpColor chart nearby. Personnel can quickly and accurately reference the chart for the appropriate replacement fuse.



AmpColor ID™ tags



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



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

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