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: $C\epsilon$
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.

$C\epsilon$ 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.

COOPER Bussmann
3-26-03　　SB03069

Look for Telpower® BLUE™ fuses exclusively from Cooper Bussmann.

Form No. TPC & TPCDS
Page 1 of 7
Data Sheet: 5023

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 - **T**ELP**OWER**® **C**ompact Fused **D**isconnect **S**witch

TPCDS - ☐☐☐ - ☐

Terminal Style (select one)
BB - **B**ullet contact on the line
     Bullet contact on the load
BS - **B**ullet contact on the line
     Stud terminal on the load
SS - **S**tud terminal on the line
     Stud terminal on the load

Thread (select one)
M - **M**etric threads for panel mount fasteners (M3) and stud (M5)
E - **E**nglish 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 - **T**ELP**OWER**® **C**ompact Fused **D**isconnect **S**witch **D** - **D**IN-Rail style product

TPCDS - D - ☐☐☐☐

Terminal Style (select one)
CC - Screw **C**lamp terminal on the line
     Screw **C**lamp terminal on the load
BC - **B**ullet contact on the line
     Screw **C**lamp terminal on the load
SEC - **S**tud terminal on the line
     English threads for stud (10-32)
     Screw **C**lamp terminal on the load
SMC - **S**tud terminal on the line
     Metric threads for stud (M5)
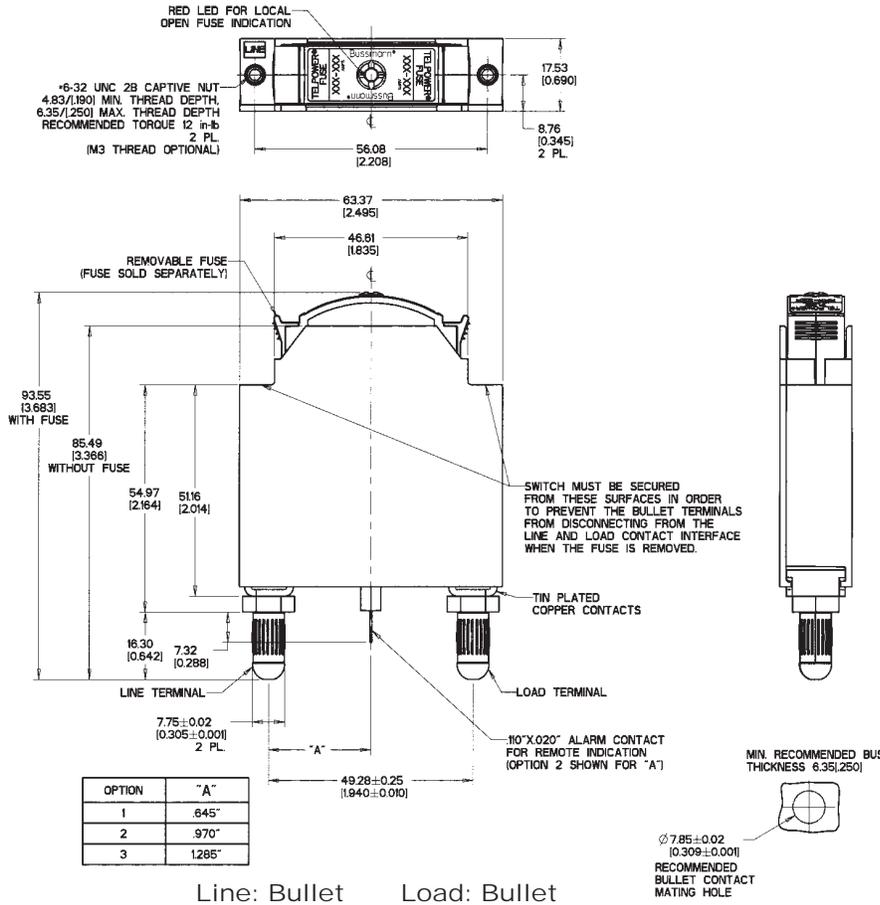   Screw **C**lamp terminal on the load

Remote Alarm Terminal Location (select one)
1 - Side ouput
     (available on **CC** and **BC** terminal styles)
2 - Bottom output, .970 inch from line terminal
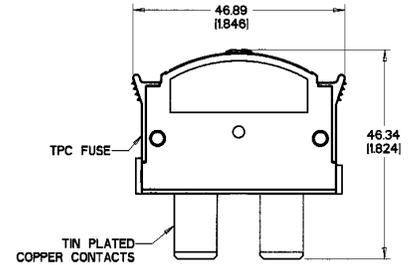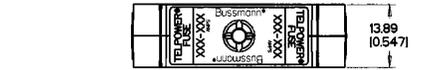   (available on **BC** terminal style only)

COOPER Bussmann
3-26-03   SB03069

Look for Telpower® BLUE™ fuses exclusively from Cooper Bussmann.

Form No. TPC & TPCDS
Page 2 of 7
Data Sheet: 5023

TPCDS Terminal Styles
Compact Fused Disconnect Switch

RED LED FOR LOCAL
OPEN FUSE INDICATION

17.53
[0.690]

*6-32 UNC 2B CAPTIVE NUT
4.83/.190] MIN. THREAD DEPTH,
6.35/.250] MAX. THREAD DEPTH
RECOMMENDED TORQUE 12 in-lb
2 PL.
(M3 THREAD OPTIONAL)

8.76
[0.345]
2 PL.

56.08
[2.208]

13.89
[0.547]

46.89
[1.846]

63.37
[2.495]

46.81
[1.835]

REMOVABLE FUSE
(FUSE SOLD SEPARATELY)

93.55
[3.683]
WITH FUSE

85.49
[3.366]
WITHOUT FUSE

54.97   51.16
[2.164] [2.014]

SWITCH MUST BE SECURED
FROM THESE SURFACES IN ORDER
TO PREVENT THE BULLET TERMINALS
FROM DISCONNECTING FROM THE
LINE AND LOAD CONTACT INTERFACE
WHEN THE FUSE IS REMOVED.

TIN PLATED
COPPER CONTACTS

16.30   7.32
[0.642] [0.288]

LINE TERMINAL

LOAD TERMINAL

7.75±0.02
[0.305±0.001]
2 PL.

"A"

.110"X.020" ALARM CONTACT
FOR REMOTE INDICATION
(OPTION 2 SHOWN FOR "A")

49.28±0.25
[1.940±0.010]

TPC FUSE

46.34
[1.824]

TIN PLATED
COPPER CONTACTS

TPC Fuse

Ø 3.81
[0.150]

18.42
[0.725]

56.08
[2.208]

47.63
[1.875]

MIN. RECOMMENDED BUS
THICKNESS 6.35[.250]

Ø 7.85±0.02
[0.309±0.001]
RECOMMENDED
BULLET CONTACT
MATING HOLE

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

Line: Bullet   Load: Bullet

RECOMMENDED PANEL CUTOUT

14.27
[0.562]

10-32 UNF 2A LOAD TERMINAL
(M5 THREAD OPTIONAL)

RECOMMENDED TORQUE FOR
10-32/M5 LINE AND LOAD
STUDS 24 in-lb (2.7 N-M)

14.27
[0.562]

10-32 UNF 2A TERMINALS
(M5 THREAD OPTIONAL)
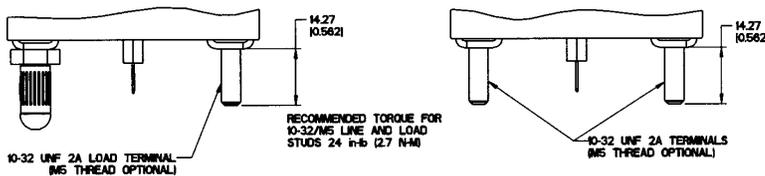
Line: Bullet   Load: Stud   Line: Stud   Load: Stud

TPCDS-D Terminal Styles
DIN Rail Fused Disconnect Switch

Line: Screw Clamp
Load: Screw Clamp

1-3 AWG (35 mm² - 50 mm²) WIRE RECOMMENDED TORQUE 33 in-lb(3.7 N-M)
4-6 AWG (16 mm² - 25 mm²) WIRE RECOMMENDED TORQUE 28 in-lb(3.2 N-M)
8-10 AWG (6mm² - 10 mm²) WIRE RECOMMENDED TORQUE 18 in-lb(2.0 N-M)

Line: Bullet*
Load: Screw Clamp

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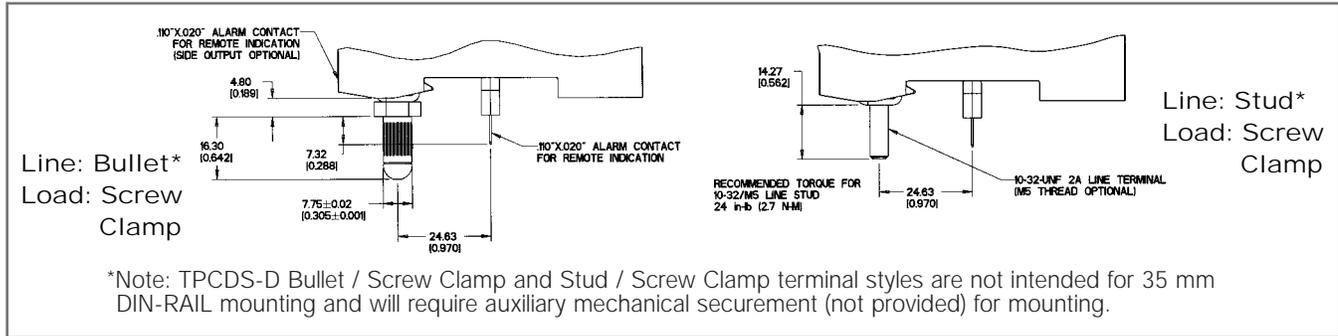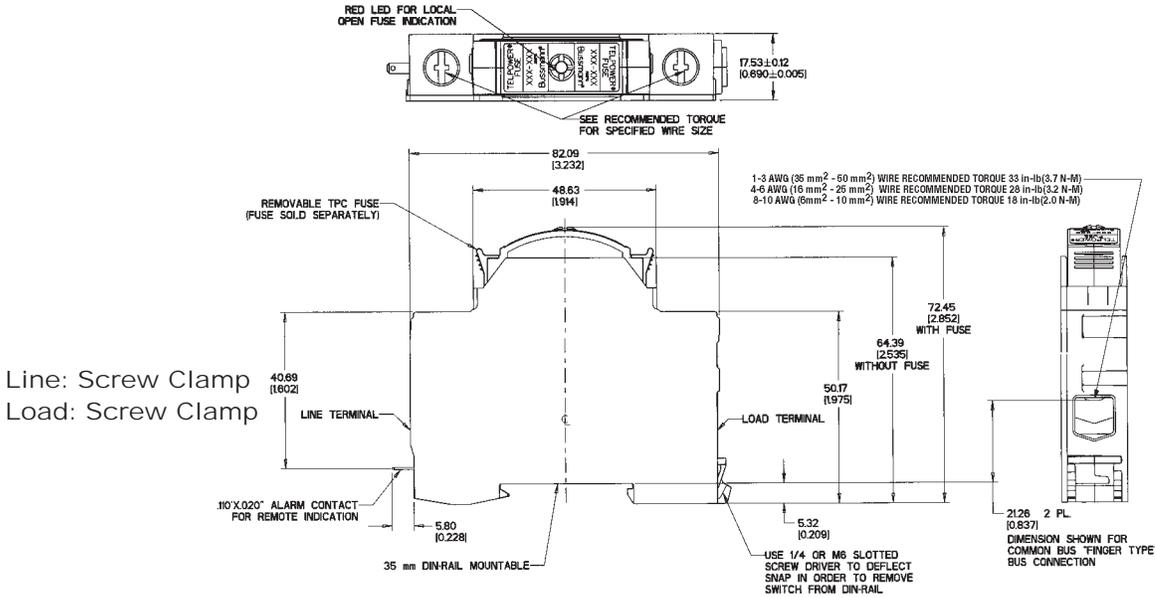
*Note: TPCDS-D Bullet / Screw Clamp and Stud / Screw Clamp terminal styles are not intended for 35 mm DIN-RAIL mounting and will require auxiliary mechanical securement (not provided) for mounting.

Alarm Schematic
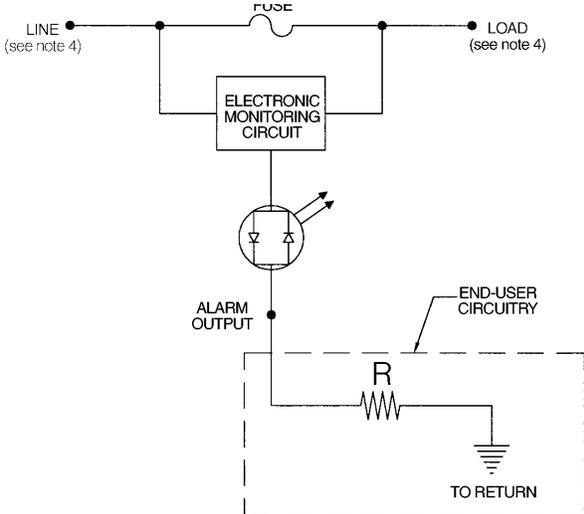
NOTES:
1. The Electronic Monitoring Circuit (EMC) is a high input impedance device that will provide alarming for an open-fuse condition.
2. Typical leakage current through the load when the EMC is operational ≤ 2 mA.
3. The resistance, R, must be provided by the end-user to limit the alarm output current 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.

COOPER Bussmann
3-26-03 SB03069

Telpower® Compact Fused Disconnect Switch   TPC & TPCDS

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

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

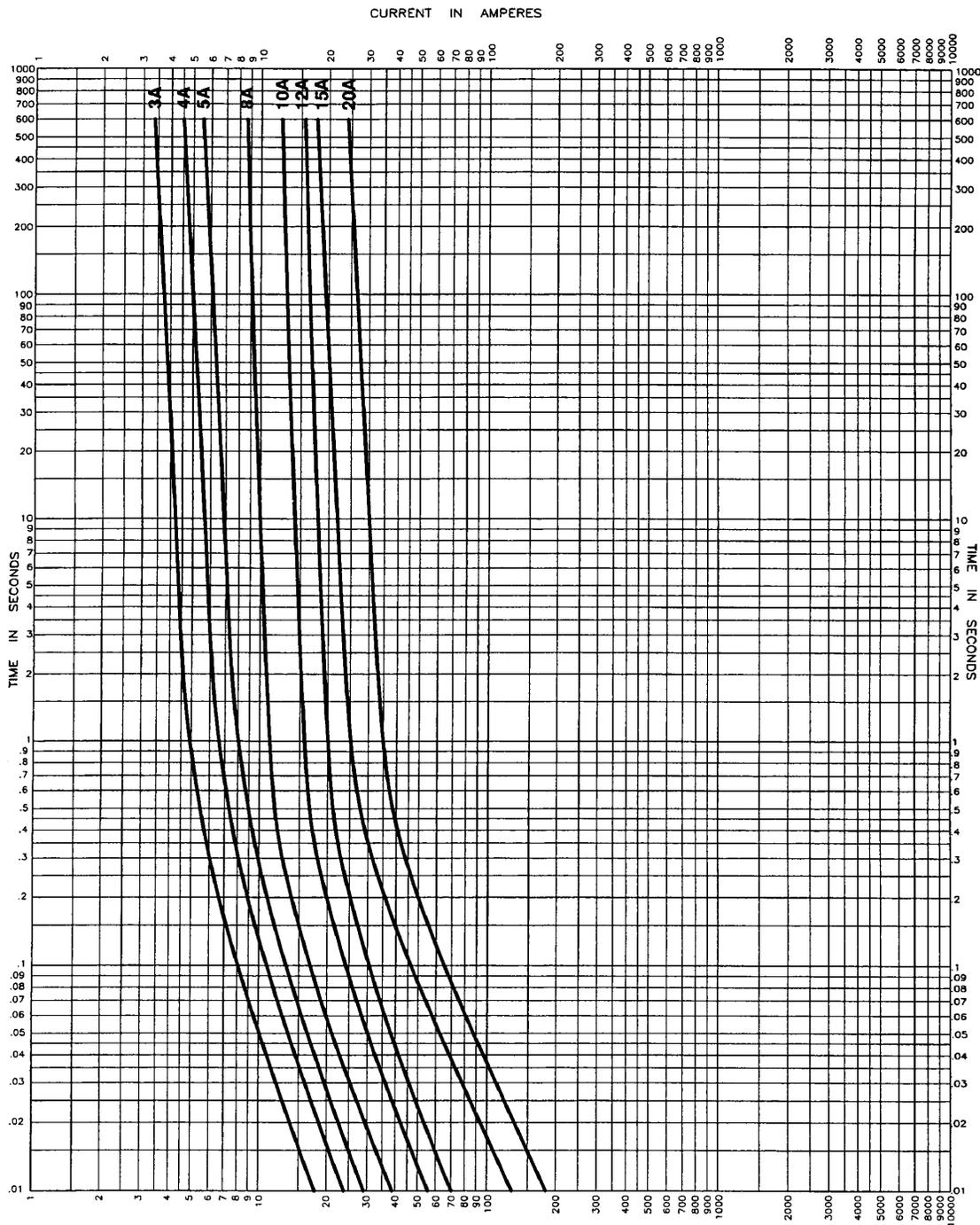*Reference Data Sheet: 5022 for TPM fuse specifications.*

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.
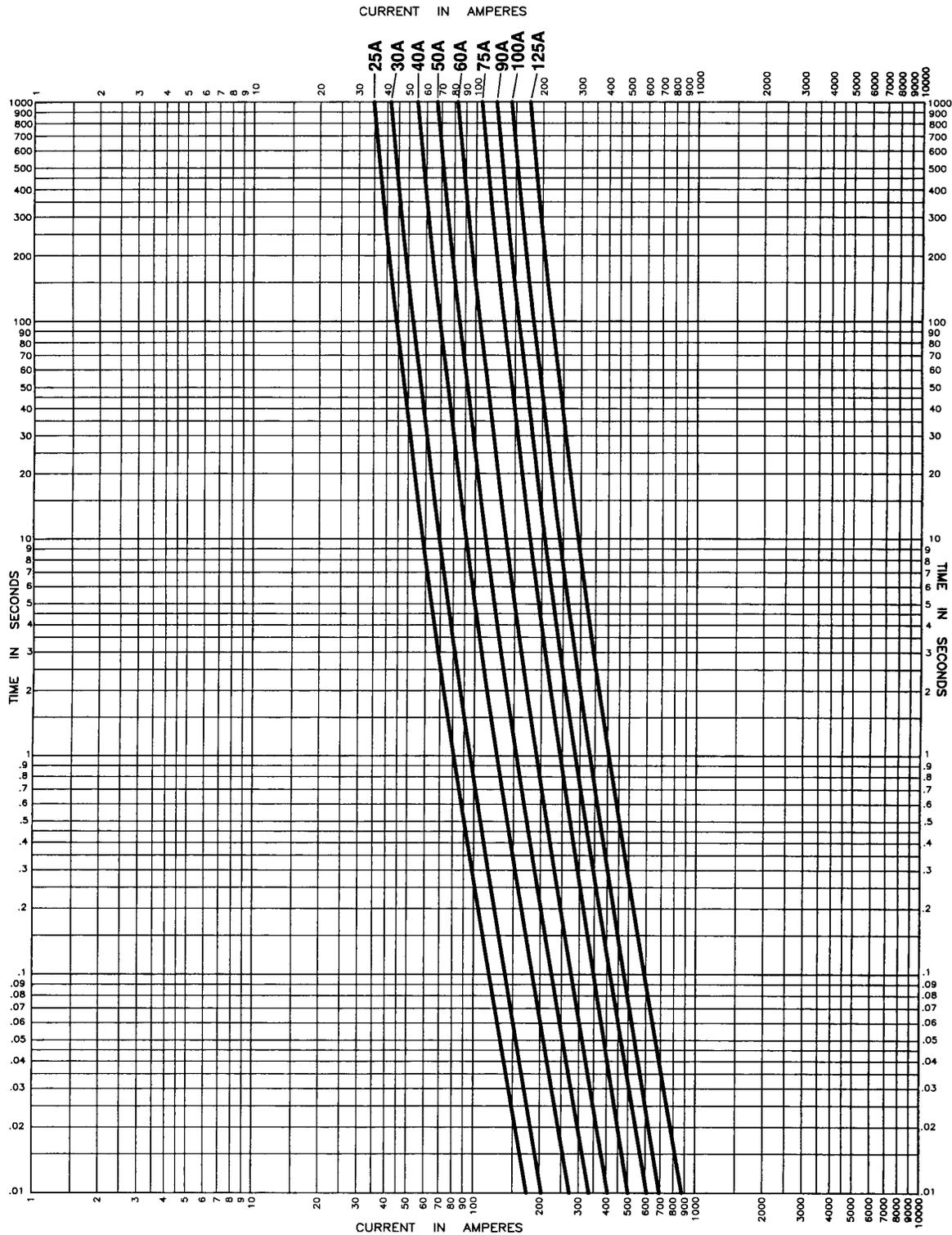

AmpColor ID™ tags

COOPER Bussmann

3-26-03   SB03069

Look for Telpower® BLUE™ fuses exclusively from Cooper Bussmann.

Form No. TPC & TPCDS
Page 5 of 7
Data Sheet: 5023

Telpower® Compact Fused Disconnect Switch   **TPC & TPCDS**

CURRENT IN AMPERES

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

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

COOPER Bussmann　　*Look for Telpower® BLUE™ fuses exclusively from Cooper Bussmann.*

3-26-03　　SB03069

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Control Switches *category:*

Click to view products by Eaton *manufacturer:*

Other Similar products are found below :

80887-99 80932-99 86855-00 88814-30 1424293-1 HW4S-2TC10 89721-12 89804-08 SSN RL01801 ASD2L20N-LVO 50051857-17 50099156-001-05 51.155R-15200 50058920-26 CP-FA51 CP-FA49 ACCU-SC/L-3000 PP9M PP87G PP86GA PP74G PP73M PP73G PP71G PP70G PP6G PP62G PP58BL PP86GB PP77GA PP76G PP4M PP47G PP46G PP41M PP40G PP32G RD-20 PP23M PP14M PP12G PORTAPRO POM-2708 PNB-2005 3057.0012 CV-075 CV-140SB CV-150 CV-150S