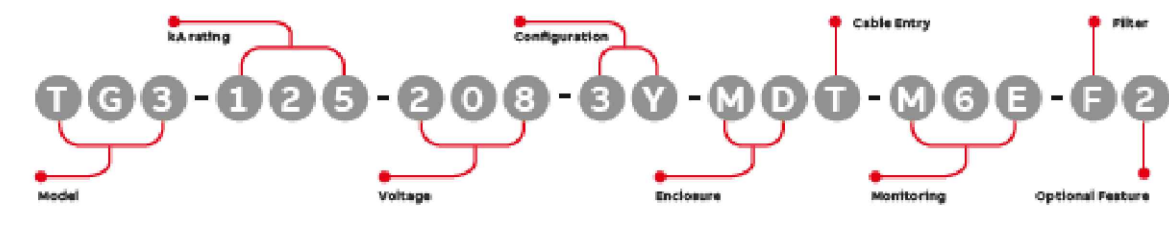


TG3™ 125 Surge Protection TransGuard®



TransGuard TG3™ suppression filter systems feature a powerful future-free ISM™ Integrated Suppression Module. The ISM™ contains individual thermally fused and protected MOVs, surge-rated copper busbars, robust filtering and advanced remote communications capabilities. The TG3™ protects today's facilities from costly downtime and equipment damage caused by routine or catastrophic electrical disturbances.



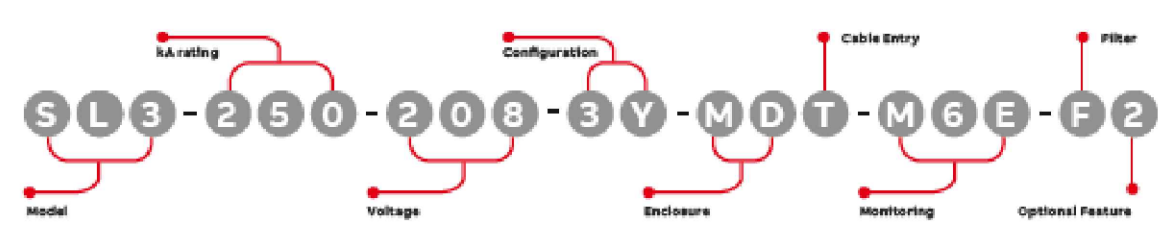
KA Rating	Voltage	Configuration*	General Rating for additional Configurations†	Enclosure
050	208	120/240	15 1 Phase, Grounded	MS Metal Without Disconnect
080	240	120/240	20 2 Phase, Grounded, Split Phase	MS Metal With Disconnect
200	360	120/240	25 3 Phase, Grounded/Type	MS Stainless Steel Without Disconnect
125	480	277/480	30 3 Phase, Grounded, High Leg Delta	SS Stainless Steel With Disconnect
350	600	241/600	30 3 Phase, Grounded/Delta	MS Fiberglass Reinforced Polyester Without Disconnect
200	250			
300				

1 'TG3' SPD CUT SHEET (BASIS OF DESIGN) NOT TO SCALE

Select® - SL3™ series | 250 kA Current Technology®



Select™ SL3™ suppression filter systems feature selenium-enhanced surge protection along with a powerful future-free ISM™ Integrated Suppression Module. The ISM™ contains individual thermally fused and protected MOVs, surge-rated copper busbars, robust filtering and advanced remote communications capabilities. Additionally, the SL3™ selenium-enhanced business technology design ensures maximum performance and a dramatically extended product life.



KA Rating	Voltage	Configuration*	General Rating for additional Configurations†	Enclosure
050	208	120/240	15 1 Phase, Grounded	MS Metal Without Disconnect
080	240	120/240	20 2 Phase, Grounded, Split Phase	MS Metal With Disconnect
200	360	120/240	25 3 Phase, Grounded/Type	MS Stainless Steel Without Disconnect
125	480	277/480	30 3 Phase, Grounded, High Leg Delta	SS Stainless Steel With Disconnect
350	600	241/600	30 3 Phase, Grounded/Delta	MS Fiberglass Reinforced Polyester Without Disconnect
200	250			
300				

2 'SL3' SPD CUT SHEET (BASIS OF DESIGN) NOT TO SCALE

Sectionalizing Cabinets Catalog Data CAB01001EN **COOPER POWER SERIES**

SecTER™ cabinet



General
Eaton's Cooper Power™ series versatile single- and three-phase SecTER™ sectionalizing terminals are designed as cable sectionalizing centers, or as permanent or temporary transformer pad covers. The aesthetic low profile design provides unobstructed access for sectioning, tapping or terminating underground cable. The top hinges diagonally cut removable cover and cabinet are designed for easy one-man opening. Hinged door and low air pressure improve access to interior terminations. A door stop prevents the door from accidentally closing. TCC powder coating exceeds ANSI® coating requirements. Standard Mineral Green TDY 2015 is twelve gauge mild steel design with standard stainless steel hardware are available. For highly corrosive environments, stainless steel or aluminum are also available. Continuous seam welding ensures a slurry smooth cabinet. Multiple configurations are available. A parking lot design is available on most SecTER cabinets that provides multiple locations for parking sensors, portable healthrains, and other cable accessories. A reaction ground nut is also provided for each phase.

Optional Features

- 200 A loadbreak junctions installed
- 600 A loadbreak junctions installed
- Clear 600 A loadbreak connectors installed
- Available in grey, tan, or brown colors
- Angled mounting panel
- 3/8" copper ground rod installed
- Mild steel base extensions
- Ingress ground sleeves



3 MEDIUM VOLTAGE JUNCTION BOX (BASIS OF DESIGN) NOT TO SCALE

ATS DESIGNATION	LOCATION	BRANCH	SWITCH RATING	NEMA	POLES	VOLTAGE	SHORT CIRCUIT WITHSTAND	BY PASS ISOLATION	CABLE ENTRY	SERVICE ACCESS	MOUNTING
ATS-12	ELECTRICAL ROOM NO. 112	NORMAL POWER	1,000	NEMA 1	4-POLE	480 VOLTS	42,000	YES	TOP OR BOTTOM	FRONT ONLY	SURFACE
ATS-LS	ELECTRICAL ROOM NO. 112	LIFE SAFETY BRANCH	200	NEMA 1	4-POLE	480 VOLTS	10,000	YES	TOP OR BOTTOM	FRONT ONLY	SURFACE

6 ATS SCHEDULE NOT TO SCALE

ITEM	BRANCH	KVA	PHASE	WIRE	TYPE	NEMA	MOUNTING	PRIMARY	SECONDARY	GROUND
T-12	NORMAL POWER TRANSFORMER	1000	3	4	OIL	3R	PAD MOUNT	13,800	480-277	-
T-12-GEN	STAND-BY POWER	30	3	4	DRY	1	PAD MOUNT	480	120-208	1#8
T-12-LN1	EMERGENCY POWER TRANSFORMER	30	3	4	DRY	1	PAD MOUNT	480	120-208	1#8
T-12-LN2	NORMAL POWER TRANSFORMER	75	3	4	DRY	1	PAD MOUNT	480	120-208	1#2
T-12-LSE	EMERGENCY LIFE SAFETY TRANSFORMER	30	3	4	DRY	1	PAD MOUNT	480	120-208	1#8
T-I	EMERGENCY STAND BY POWER	30	3	4	DRY	1	PAD MOUNT	480	120-208	1#8

NOTES:
1. IMPEDANCE VALUES FOR TRANSFORMERS SHALL BE 4.5%

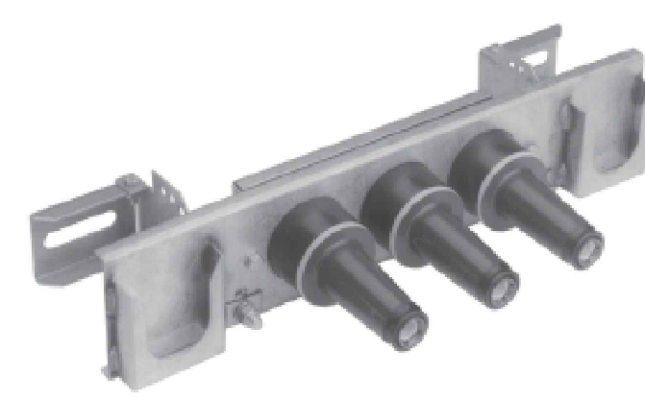
7 TRANSFORMER SCHEDULE NOT TO SCALE

EQUIPMENT DESIGNATION	EQUIPMENT OR PANEL SERVED	BRANCH	VOLTAGE RATING	PHASE	WIRE CONFIGURATION	PROTECTION MODES	ENCLOSURE	CATEGORY	SHORT CIRCUIT RATING	CIRCUIT BREAKER	LOCATION	MOUNTING
SPD-12-LN1	PANELBOARD "12-LN1"	NORMAL POWER	120-208	3	5W	L-G, L-N, L-L, N-G	NEMA 1	TYPE 3	125,000	30/3	MOUNTED AT "12-LN1"	SURFACE BOTTOM OF PANELBOARD
SPD-12-LN2	PANELBOARD "12-LN2"	NORMAL POWER	120-208	3	5W	L-G, L-N, L-L, N-G	NEMA 1	TYPE 3	125,000	30/3	MOUNTED AT "12-LN2"	SURFACE BOTTOM OF PANELBOARD
SPD-12-MDP	MAIN DISTRIBUTION PANELBOARD "12-MDP"	NORMAL POWER	277-480	3	5W	L-G, L-N, L-L, N-G	NEMA 1	TYPE 2	250,000	100/3	MOUNTED AT "12-MDP"	SURFACE SURFACE BUCKET SLOT IN 12-MDP.

8 SPD SCHEDULE (SURE PROTECTION DEVICE) NOT TO SCALE

Loadbreak Connectors CAB50102EN **COOPER POWER SERIES**

200 A 15 kV class loadbreak junction



General
Eaton's Cooper Power™ series 200 A, 15 kV class loadbreak junction provides true break or true 15 kV 4.4 kV loadbreak interlocks that are internally fused together and meet all requirements of IEEE Std 388™ "2000 standard. Separable insulated conductor systems. Loadbreak junctions are used in pad-mounted apparatus, underground vaults, and other apparatus to facilitate, extension, repair, tap, or replace, and to isolate apparatus from maintenance. Sectioning a cable run to the end, inside a cable fault is made easy when a loadbreak junction is used with 15 kV class outdoor elbows and other accessories meeting the requirements of IEEE Std 388™ "2000 standard. When installed with a company rated product, the junction provides a fully insulated, separable, separable connection for loadbreak operation.

The junction has a continuous solid current path of all copper alloy. No aluminum components are used. It also has an aluminum interlock with superior die-casting properties. The body is molded of high quality polycarbonate plastic insulation and has a molded on peroxide-cured semi-conductive epoxy shield.

Cooper's latch indicator ring, located on the circumference of the insulator cable, denotes the gatework of loadbreak below installation on the insulator. The ring also provides immediate feedback to determine if the above is properly installed on the junction. If the above ring is completely covered by the loadbreak below, the above is fully "latched." If the ring is visible, the above is not fully installed, so the operator can correct it before any problems occur.

The loadbreak junction has an adjustable stainless steel bracket for mounting at various opening angles on flat or curved surfaces, with up to 90° for 10" movements. The long tapered handle provides strong, light support of the junction for optimum loadbreak operation. Heavy duty, accommodate insulated strand of busbar or portable loadbreak. Clear wire clamp can accept accommodate two wires up to 1/2 stranded #14" diameter.

Stainless steel "U" strips are available for direct wall mounting.

Hardware Accessories

3M™ Mounting Brackets MB and MBS Series
The 3M Mounting Brackets MB and MBS Series have been designed to mount 3M metal clad cable connectors. These brackets are attached to the cable just below the termination. This provides a single that can then be attached to an MBS mounting bracket or to any other termination.

3M™ Cross-Arm Mounting Bracket MB-I
3M Cross-Arm Mounting Bracket MB-I is a cross-arm bracket for use in latching terminated cable. The MB-I is ideal to use when exiting the MB or MBS termination mounting brackets featured on this page.

Specifications and Ordering Information for 3M Hardware Accessories

Product Number	UPPS (Eaton®)	Rating (kV)	Rating (kV)	Rating (kV)	Rating (kV)	Rating (kV)	Rating (kV)
MB-3	1474	0.88-1.37 (30-100 mm²)	15	10	10	10	10
MB-4	1475	1.40-1.97 (35-100 mm²)	15	10	10	10	10
MB-5	1476	1.80-2.47 (40-100 mm²)	15	10	10	10	10
MB-6	1477	1.10-1.37 (30-100 mm²)	15	10	10	10	10
MB-7	1478	1.40-1.97 (35-100 mm²)	15	10	10	10	10
MB-8	1479	1.80-2.47 (40-100 mm²)	15	10	10	10	10
MB-9	1480	1.10-1.37 (30-100 mm²)	15	10	10	10	10
MB-10	1481	1.40-1.97 (35-100 mm²)	15	10	10	10	10
MB-11	1482	1.80-2.47 (40-100 mm²)	15	10	10	10	10

*Customize cable O.D., not include G.D. for determining the proper size.
†See table on page 3 for more voltage configurations.

3M Metal Clad Jacketed Cable Connectors - Connector Cross Reference

Trade Size (NPT Size)	Cable Jacket Range (Inch)	Cross-Section (Type)	Application	T & B	O-2-Inventory
3/4	0.88-1.37	TMC3010	TMC3010	8700-445, 8700-444	JMC-20-17
1	1.10-1.40	TMC3015	TMC3015	8700-445, 8700-443	JMC-75-115
1 1/4	1.40-1.97	TMC3020	TMC3020	8700-445, 8700-443	JMC-100-146
2	1.80-2.47	TMC3025	TMC3025	8700-445, 8700-443	JMC-125-178
3	1.10-1.37	TMC3030	TMC3030	8700-445, 8700-443	JMC-150-178
4	1.40-1.97	TMC3035	TMC3035	8700-445, 8700-443	JMC-200-189
5	1.80-2.47	TMC3040	TMC3040	8700-445, 8700-443	JMC-250-303
6	2.47-3.03	TMC3045	TMC3045	8700-445, 8700-443	JMC-300-361
8	3.03-3.61	TMC3050	TMC3050	8700-445, 8700-443	JMC-400-465
10	3.61-4.20	TMC3055	TMC3055	8700-445, 8700-443	JMC-500-493
12	4.20-4.77	TMC3060	TMC3060	8700-445, 8700-443	JMC-600-613

5 MEDIUM VOLTAGE CABLE MOUNTING BRACKET (BASIS OF DESIGN) NOT TO SCALE

4 LOAD BREAK APPARATUS CONNECTOR (BASIS OF DESIGN) NOT TO SCALE

ADDENDUM 3	01-24-2025	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title POWER CUT SHEET INFORMATION AND ELECTRICAL SCHEDULES	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900
Revisions:	Date:		paradigm Architecture Engineering Design-Build 9000 Weissex Place, Louisville, KY 40222 www.paradigmusa.com		U.S. Department of Veterans Affairs	Approved: Project Director	FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Building Number 12
								Issue Date 06/25/2024	Checked WLM
								Drawn KMB	Drawing Number EP504