



Padmount Capacitor Banks · Substation Capacitor Banks · Overhead Capacitor Racks · Padmount Switchgear
 · Termination & Sectionalizing Enclosure · Primary & Secondary Metering Enclosure · Fuse Enclosure

Get To Know **Scott**[®]

Scott Manufacturing Solutions[®] (Scott) fabricates medium voltage power distribution equipment for the Americas. Scott's expertise in power distribution solutions roots extends back to 1966, with one goal in mind that is prevalent today; design, manufacturing, and assemble customizable power distribution products that deliver powering solutions. Our rapid expansion from a small shop to a modern facility is evidence, of Scott's ability to fulfill the most pressing power distribution requirements.

Scott's commitment to quality starts with a robust design process and quality production practices that are prevalent throughout the organization. To maximize safety, reliability, and efficiency Scott prioritized all product designs to meet NEMA, ANSI/IEEE, and other national regulations. Our entire team takes meticulous protocol in their craftsmanship and operations to oversee quality. To further this commitment, Scott is an employee-owned MBE-certified organization. We strive to do whatever it takes, show up with pride, and stay positive.

Disclaimer: All customizable options listed within this catalog are restricted to the most common selections. Please contact a sales representative for further details on customization opportunities.



Padmount Capacitor Bank



Walnut California

Scott’s line of padmount free-standing capacitor banks is shipped completely assembled, including capacitors, switches, fuses, PTs, and accessories when ordered. Each unit is designed for three-phase use in voltages of 5kV to 15kV with ratings up to 1,800 KVAR for power distribution circuits. Our capacitor bank packages offer customers system benefits such as; improved power factor, system capacity, power flow, and is cost savings. We also provide metal-enclosed substation capacitor banks with designs up to 9 MVAR.

STANDARD FEATURES INCLUDE:

Enclosure: 12 gauge cold roll steel
Base: 3” or 4” channel iron base is hot dipped galvanized
Roof: Cross kinked for additional strength as well as to shed rain/snow
All copper busbar (bare, silver, or tin)
MIG welded throughout
Meets ANSI C57.12.13 and Western Underground Committee 2.13
Stainless steel hinges
Stainless steel pentahead lock
Door stop locks hold the door in the open position
Hold down cleats
Bold, clear cautionary labels
NEMA GPO3 insulating barriers
Enclosure doors has lift-off capability in the open position only
Doors provided with penta head/padlockable handle with vandal resistant three-point latching
Enclosure has three millimeters of universal epoxy primer and three-millimeters of epoxy siloxane finish

OPTIONS:

Available as dead-front or live-front design
200 Amp bushing wells
Removable lifting eyes
304 or 316 stainless steel
Final color to match your specifications
Coastal finish with inorganic zinc rich primer
Vacuum, oil, or zero sequence switches
Lightning arresters
Factory installed leveling device
Reactors

Substation Capacitor Banks



Kauai Hawaii

Scotts’ line of substation capacitor banks is custom configured for your customizable application. The product is shipped completely assembled, including capacitors, switches, fuses, PTs, and accessories when ordered. The substation capacitor bank packages offer customers system benefits such as improved power factor, system capacity, power flow, reduced losses, and are cost savings. The units are designed for single or three-phase use in voltages of 5kV to 34.5kV with a capacity of 9 MVAR.

STANDARD FEATURES INCLUDE:

- Enclosure: 12 gauge cold roll steel
- Base: 3” or 4” channel iron base is hot dipped galvanized
- Roof: Cross kinked for additional strength as well as to shed rain/snow
- Control compartment
- All copper busbar (bare, silver, or tin)
- MIG welded throughout
- Stainless steel hinges
- Stainless steel penta head lock
- Door stop locks hold the door in the open position
- Hold down cleats
- Doors provided with penta head or padlockable handle with vandal resistant three-point latching
- Bold, clear cautionary labels
- Enclosure has three millimeters of universal epoxy primer and three-millimeters of epoxy siloxane finish
- All seams are sealed before applying the final finish to prevent water infiltration

OPTIONS:

- Available as dead front or live front design
- Available as underground or overhead primary line configuration
- 200 Amp loadbreak bushing wells or 600 Amp deadbreak bushings
- Primary load interrupter switch or circuit breaker
- 304 or 316 stainless steel
- Final color to match your specifications
- Coastal finish with inorganic zinc rich primer
- Vacuum, oil, or zero sequence switches
- Reactors
- Viewing windows
- Neutral unbalance relay

Overhead Capacitor Racks



Chino California

OVERHEAD CAPACITOR RACKS

Scott offers comprehensive capacitor rack solutions, that allow users to select features to meet their applications’ needs. Our capacitor rack packages offer customers system benefits such as; improved power factor, system capacity, power flow, reduced losses, and cost savings.

Our line of overhead capacitor racks is shipped completely assembled from the factory with all high-voltage wiring, including capacitors, switches, VTs, wildlife protection, and accessories when ordered. The units are designed for single or three-phase use in voltages of 5kV to 34.5kV with a capacity of up to 1,800 KVAR.

STANDARD FEATURES INCLUDE:
Frame: Hot roll steel - hot dipped galvanized - bolted or welded construction
6061-T6 Welded aluminum
Capacitor rack frames for 15kV class systems are available with 95kV and 110kV BIL
Accommodate three, six, or nine single-phase capacitor units
Capacitor racks accommodate 50, 100, 150, 200, 300, 400, 500 and 600 KVAR single or double bushing capacitor units in single row assemblies
Single-phase capacitor units can be connected in grounded-wye, ungrounded-wye or delta configurations depending on system parameters
Switch: Vacuum or oil
Wildlife protection

OPTIONS:
Voltage transformer: solid dielectric or oil filled
Neutral sensor
Line post sensor
Distribution class surge arrester
Switched or fixed configurations
Lightning arresters

Primary & Secondary Metering Enclosure



San Jose Costa Rica

Scott's line of padmount and polemount/wallmount metering solutions is available as a standard free-standing self-supporting padmount enclosure with adjustable mountings for customer-installed PTs/CTs. A separate compartment door leads to the metering compartment. This compartment includes meter sockets mounted on a hinged removable panel with cutouts for test switches. The polemount/wallmount enclosure has two mounting brackets and meter sockets. These enclosure are designed for 5kV or 25kV service ratings at 200 amp - 600 when installed. The enclosure are suitable for the utility side or solar field application with 200 amp - 600 amp installations.

STANDARD FEATURES INCLUDE:

Enclosure: 12 gauge cold roll steel
Base: 3" or 4" channel iron base is hot dipped galvanized
Roof: Cross kinked for additional strength as well as to shed rain/snow
All copper busbar (bare, silver, or tin)
MIG welded throughout
Meets ANSI C57.12.28 and Western Underground Committee 2.13
Stainless steel hinges
Doors provided with penta head/padlockable handle with vandal resistant three point latching
Door stop locks hold the door in the open position
Hold down cleats
Bold, clear cautionary labels
CTs and PTs are isolated by NEMA GPO-3 barriers
Enclosure doors has lift-off capability in the open position only
Enclosure has three millimeters of universal epoxy primer and three-millimeters of epoxy siloxane finish
All seams are sealed before applying the final finish to prevent water infiltration

OPTIONS:

Available as dead front or live front design
CTs and PTs factory installed
Cooper NX fuse or equal factory installed
S&C SML-20 or SML-4Z fuses factory installed
S&C uni-rupter with SML-20 or SML-4Z fuses factory installed
NX fuse or equal factory installed mounts available
Removable lifting eyes
PVC conduit and fittings for low voltage wiring
Polemounted enclosure can be supplied with brackets for wallmount
Factory installed leveling device

Termination & Sectionalizing Enclosure



San Diego California

Scott's enclosure offer a simple solution whenever underground cable needs to be terminated at a convenient location or as a non-fusible sectionalizers to distribute power to another location. Available in standard industry dimensions and custom sizes for your application. Our sectionalizes are for use on single and three-phase circuits 5kV to 35kV, 200 amp or 600 amps with junction bars that are suitable for 2 ways up to 6 ways.

STANDARD FEATURES INCLUDE:
Enclosure: 12 gauge cold roll steel
Base: 10 gauge welded steel base that is hot dipped galvanized
Roof: cross kinked for additional strength as well as to shed rain/snow
Junction mounting plate – hot dipped galvanized
MIG welded throughout
Meets ANSI C57.12.28 and Western Underground Committee 2.13
Stainless steel hinges
Stainless steel hinges
Stainless steel pentahead lock
Wind stop
Hold down cleats
Wind stop
Bold, clear cautionary labels
High-Solids severe performance coating – VOC compliant
Enclosure has three millimeters of universal epoxy primer and three-millimeters of epoxy siloxane finish
All seams are sealed before applying the final finish to prevent water infiltration

OPTIONS:
Custom sizes to match your requirements
Riser base to match your requirements
Ground sleeve
Factory installed leveling device
304 or 316 stainless steel
Final color to match your specifications
Coastal finish with zinc rich primer
Factory installed junction bars IEEE386
Extra parking stands
Ground bar or rod

Fuse Enclosure



Coronado California

Scott’s line of free-standing fuse enclosure offers protection and switching of circuit configurations that fit every requirement. This allows you complete flexibility in designing your underground system. We offer many single and three-phase styles for industrial, commercial, or residential applications. Our fuse enclosure are designed for 5kV to 25kV voltage classes. These fuse enclosure are designed as fused sectionalizers to match your application and are suitable when underground cables must be sectionalized and protected.

STANDARD FEATURES INCLUDE:

Enclosure: 12 gauge cold roll steel
Base: 3” or 4” channel iron base is hot dipped galvanized
Roof: Cross kinked for additional strength as well as to shed rain/snow
Doors provided with pentahead/padlockable handle with vandal resistant three-point latching
Circuit diagram on inside of door
All copper busbar (bare, silver, or tin)
MIG welded throughout
Meets ANSI C57.12.28 and Western Underground Committee 2.13
Stainless steel hinges
Stainless steel pentahead lock
Hold down cleats
Bold, clear cautionary labels
Enclosure has three millimeters of universal epoxy primer and three-millimeters of epoxy siloxane finish
All seams are sealed before applying the final finish to prevent water infiltration

OPTIONS:

Available as dead front or live front design
200 Amp bushing wells
Removable lifting eyes
304 or 316 stainless steel
Final color to match your specifications
Coastal finish with inorganic zinc rich primer
S&C SML-20 or SML-4Z fuses factory installed

Padmount Switchgear



Fullerton California

Scott’s line of padmount air-insulated and vacuum switchgear allows for quick, convenient fuse handling and circuit switching to dead-front or live-front applications. The low-profile enclosure offer protection and switching in typical circuit configurations of one to four ways, fusible or switched that fit every requirement. It allows you complete flexibility in designing your underground system. We offer multiple styles of single and three-phase industrial, commercial, and residential applications. The design ratings range from 15kV to 35kV, 600 amp gang-operated 40kA momentary/fault close. Primary bushings are available as 200A or 600A/fuse bushings are 200 amp load break.

STANDARD FEATURES INCLUDE:

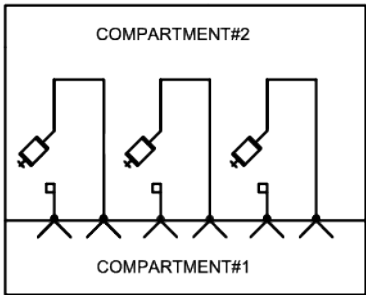
Enclosure: 12 gauge cold roll steel
Base: 3” or 4” channel iron base is hot dipped galvanized
Roof: Cross kinked for additional strength as well as to shed rain/snow
Conveniently located side mounted padlockable switch pocket
All copper busbar (bare, silver, or tin)
MIG welded throughout
Meets ANSI C57.12.28 and Western Underground Committee 2.13
Circuit diagram on inside of door
Stainless steel hinges
Stainless steel penta head lock
Hold down cleats
Bold, clear cautionary labels
Doors provided with penta head/padlockable handle with vandal resistant three point latching
Enclosure has three millimeters of universal epoxy primer and three-millimeters of epoxy siloxane finish
All seams are sealed before applying the final finish to prevent water infiltration

OPTIONS:

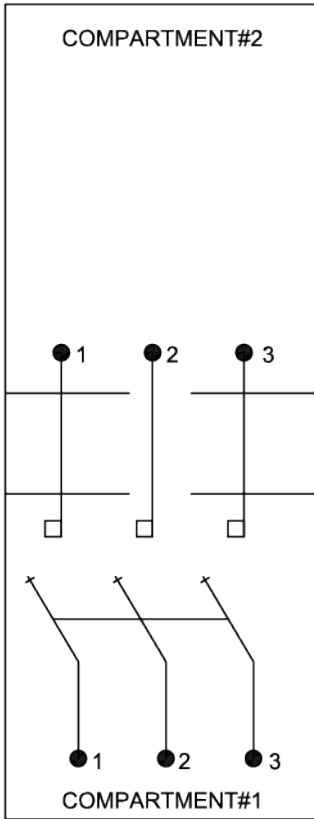
Switched and fused ways to match your requirements
Custom sizes to match your requirements
Riser base to match your requirements
Ground sleeve
304 or 316 stainless steel
S&C uni-rupter with SML-20 or SML-4Z fuses
Final color to match your specifications
Coastal finish with zinc rich primer
Additional circuit configurations beyond our standard four way
Hinged roof sections to allow for easier cable installation
Factory installed leveling device
Lightning arresters
Ground bar or rod

PADMOUNT SWITCHGEAR CONFIGURATIONS

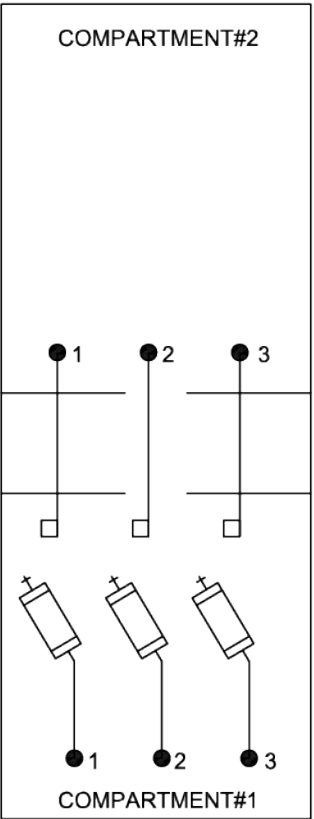
All configurations can be built in live-front and dead-front.



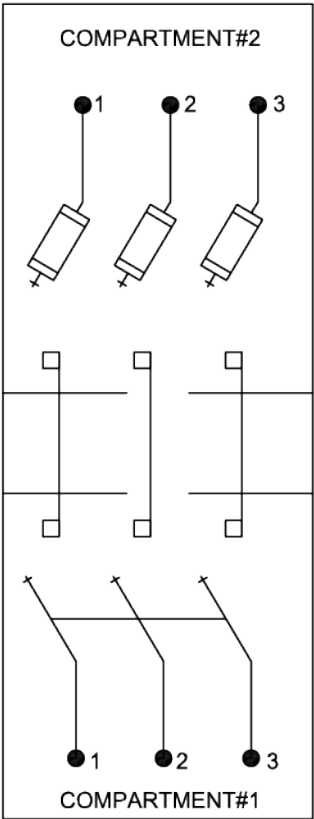
ONE LINE DIAGRAM



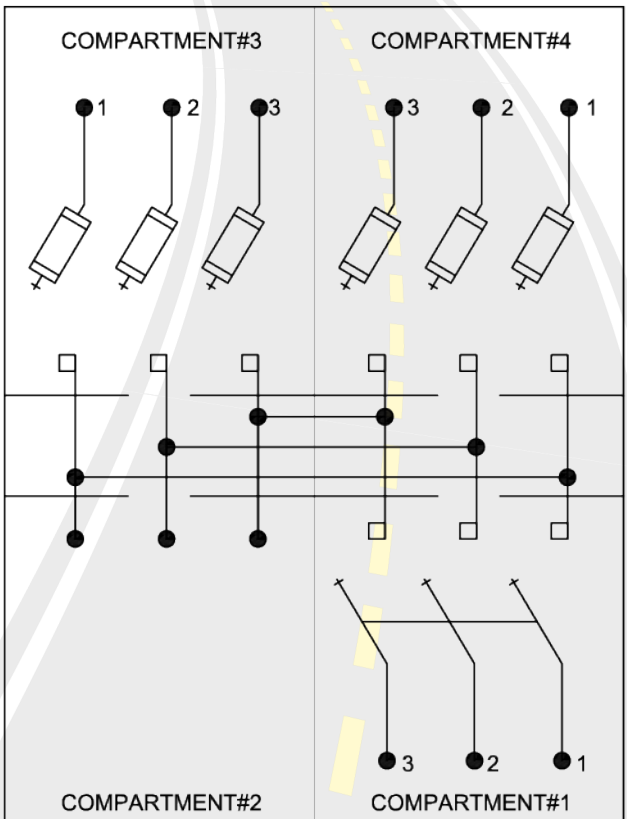
SPM - 3



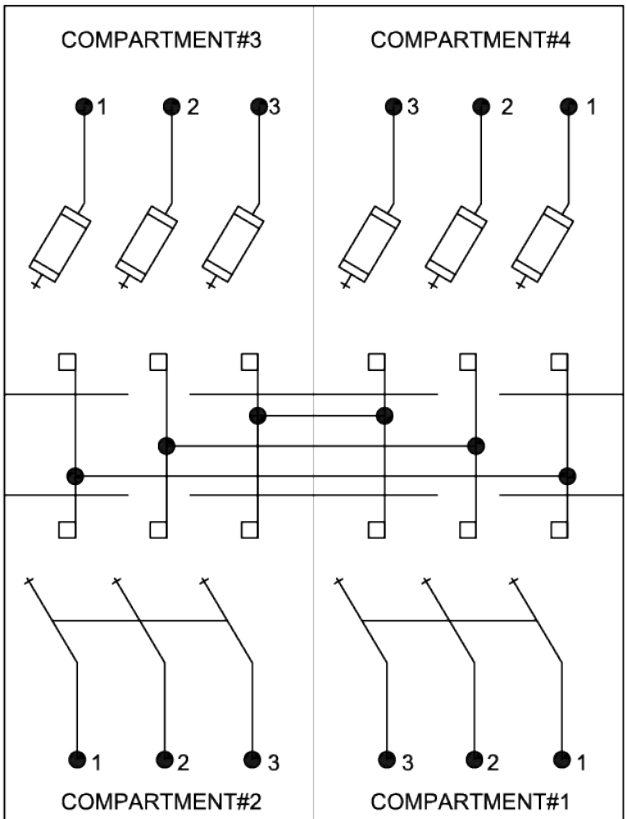
SPM - 4



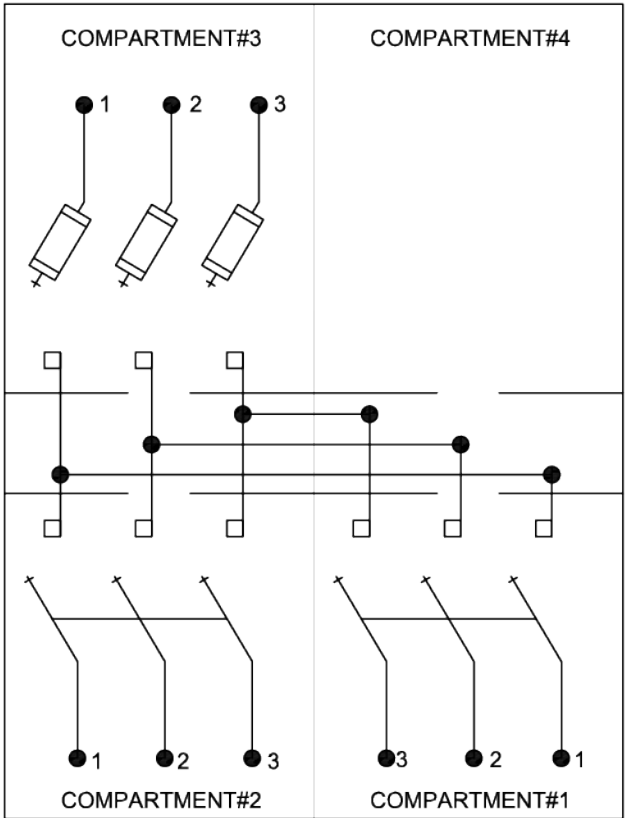
SPM - 5



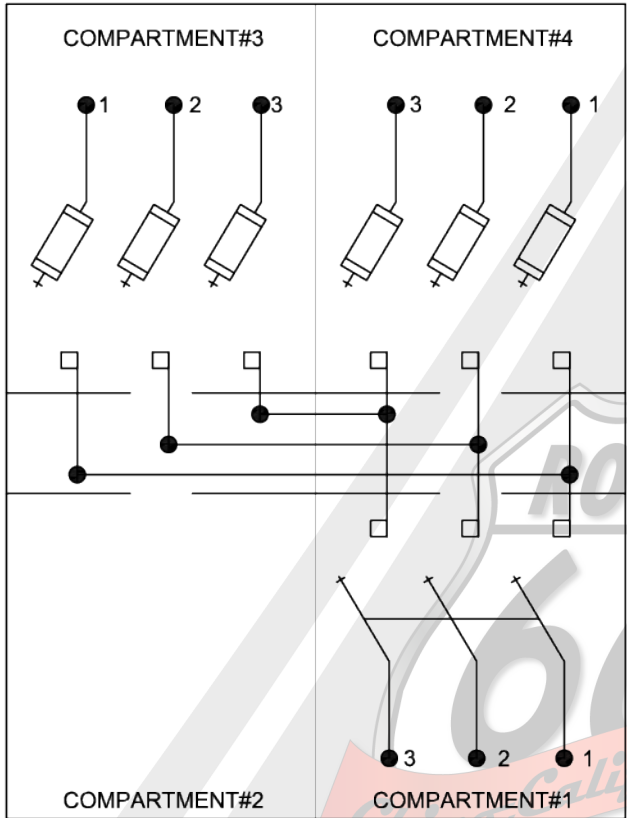
SPM - 8



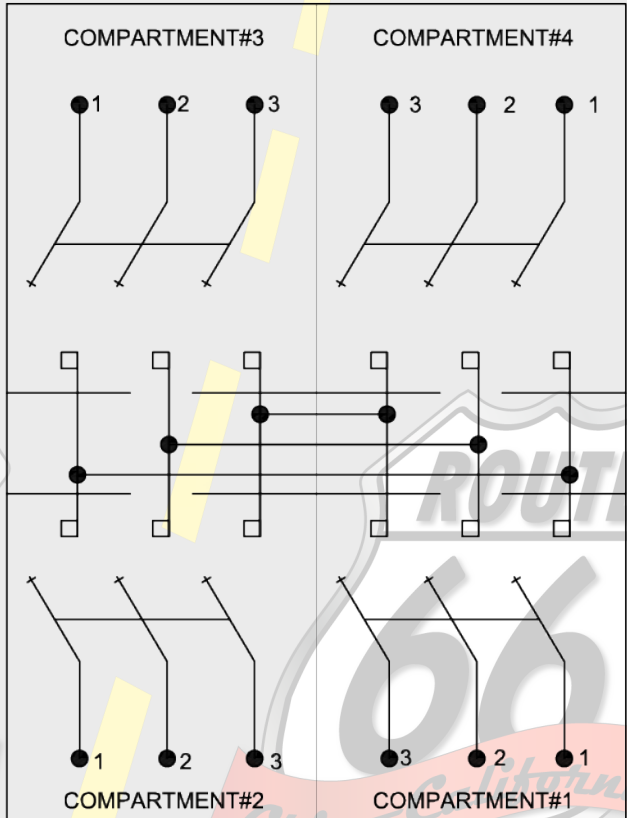
SPM - 9



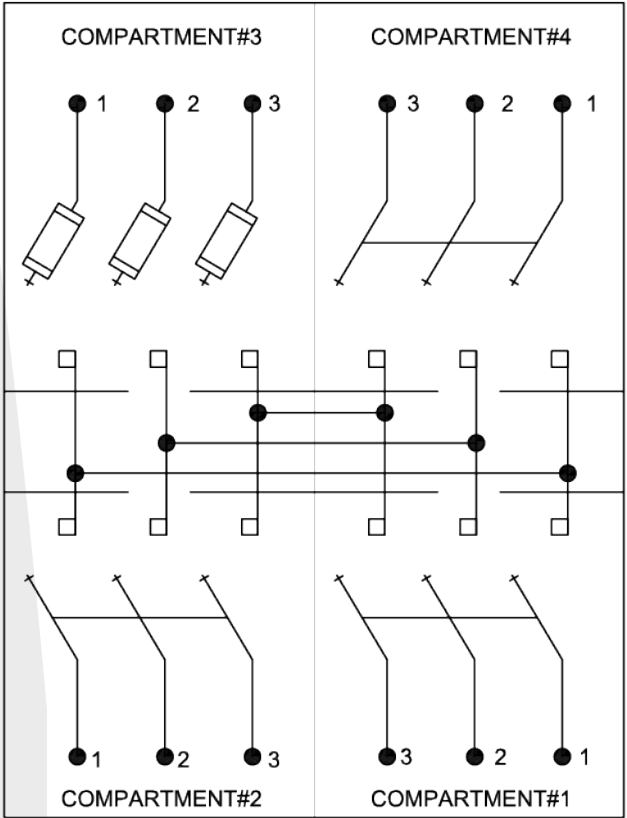
SPM - 6



SPM - 7

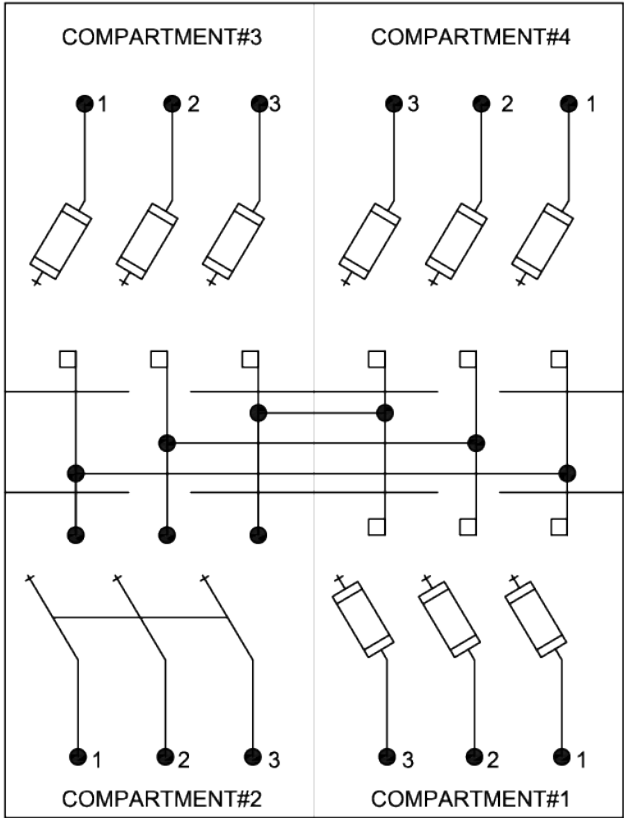


SPM - 10

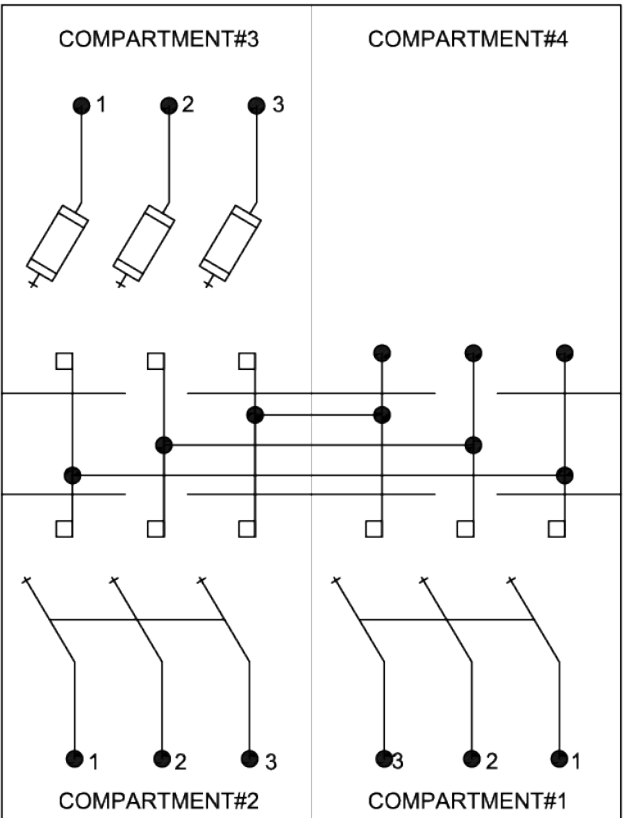


SPM - 11

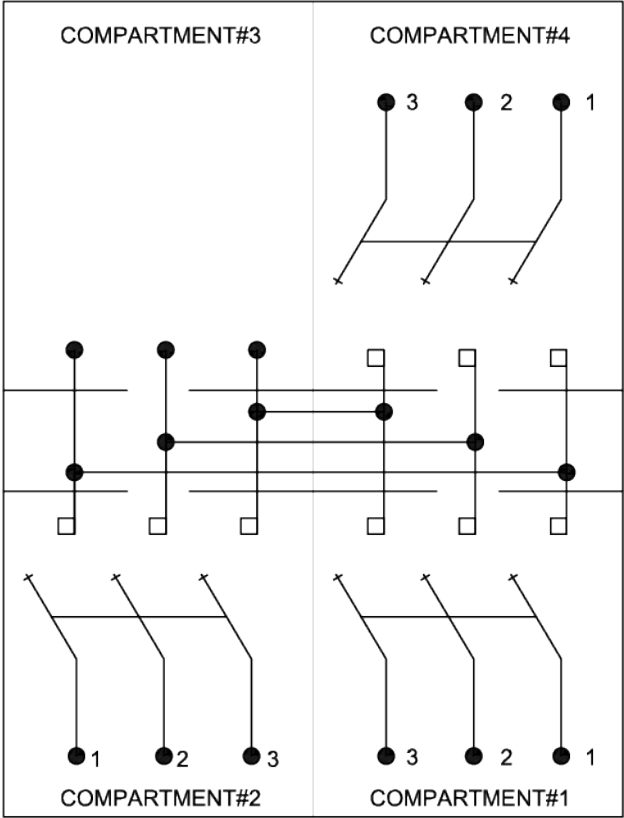
PADMOUNT SWITCHGEAR CONFIGURATIONS



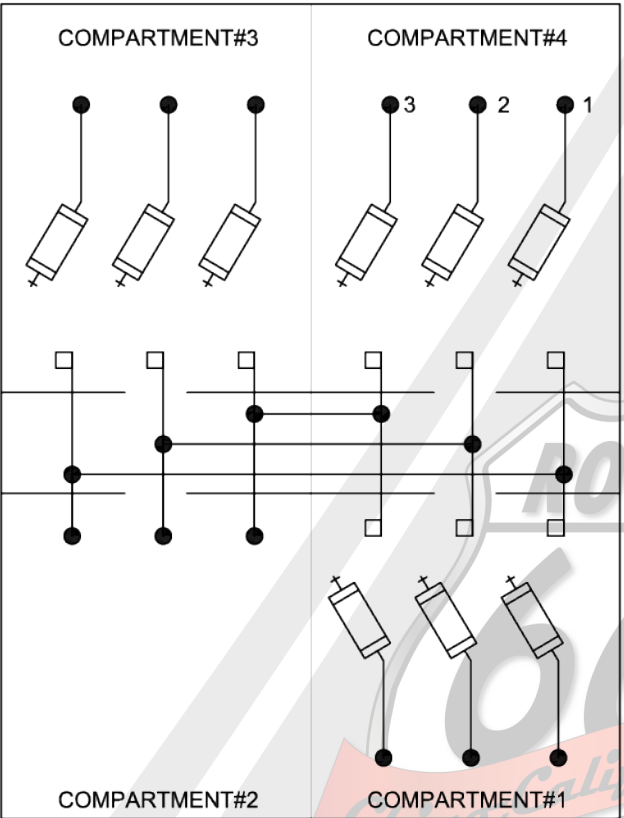
SPM - 12



SPM - 14



SPM - 13



SPM - 15

FAQ

WHY GALVANIZE THE ENCLOSURE STRUCTURAL BASE FRAME?

All enclosures have a structural steel base ranging from 2 to 6 inches, depending on the product type. The structural steel base is welded to the enclosure for stabilization. The benefits of having a structural steel base as the foundation reduce the possibility of the enclosure flexing and racking during the installation and leveling process. A gasket will not be needed to protect the enclosure from scratches because the structural steel base is galvanized to prevent corrosion.

WHAT ARE THE BENEFITS OF SCOTT'S COATING SYSTEM?

Scott's coating system is a multistep process that begins far before the products have entered the paint department. Preparation for the enclosures to enter the coating phase begins in the welding department. Where enclosure walls, roof, and galvanized base are welded together. Welds are ground smooth before media blasting. The enclosure is then moved to a media blast process, where it is subjected to air and media blast. The rough surface created during the media blast process allows for a much stronger adhesion of primer and paint to the enclosure. A typical primer selection is PPG Amercoat 240, which is excellent for correction prevention in salt and fresh water immersion and corrosive chemical environments. PPG Amercoat 240 is formulated to maintain the longevity of steel, such as fuel tanks and ship hull exteriors above and below the waterline. Once the enclosure has been primed and dried, a sealant is applied to all seams to prevent water infiltration. PPG polysiloxane PSX 700 is used as the finish coat due to its corrosion and chemical resistance exceeding those provided by a traditional epoxy coating, making the product resistant to stains and graffiti. Scott's coating system is designed to provide a premium performance solution for long-term steel protection.

NOTES

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