» CUSTOM PRODUCT DESIGN & APPLICATION ENGINEERING SUPPORT

ESS Metron is at the forefront of Engineering Automation. We extract from our massive portfolio of 3-D modeled designs to provide our clients with custom drawings almost instantly. From the moment your project begins, you'll have detailed drawings specific to your parameters that meet the most demanding applications and standards. In addition, our broad engineering skill-set includes electrical, mechanical and structural disciplines; so you know you have the most skilled and state-of-the art engineering support at your disposal.

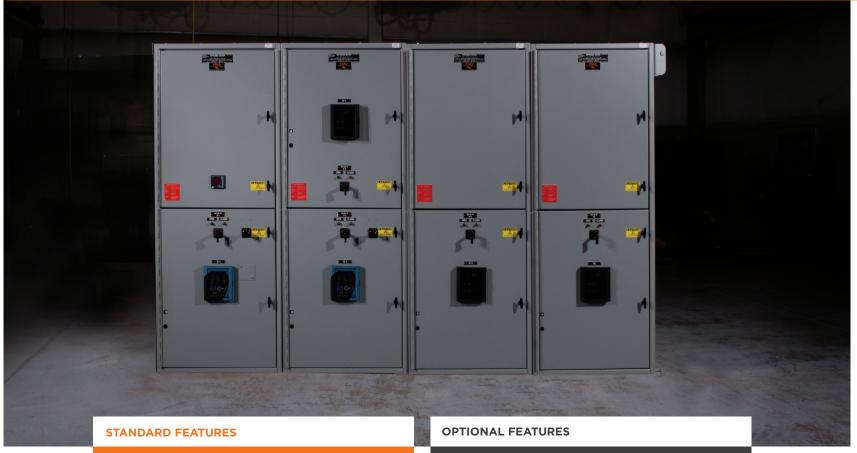| COMMON RATINGS				KA RATED		MVA RATED	NEMA 1				NEMA 3R (Non Walk-In)			
Rated Max Voltage (kV)	Typical System Operating Voltages (kV)	Rated Withstand/ Crest Impulse Voltage (kV)	Continuos RMS Current Rating (@ 60HZ) (AMPS)	Rated Short Time Current (kA)	Rated Interrupting Time (Cycles)	Nominal MVA Class	Width (W)	Depth (D)	Height (H)	Weight (Lbs)	Width (W)	Depth (D)	Height (H)	Weight (Lbs)
27	24.5 23	125	1200 2000 2750	16	3 or 5	750	36"	110"	95"	2700 3024 3375	36"	122"	110"	3750 4080 4440
			1200 2000 2750	25		1250				2700 3024 3375				3750 4080 4440
			1200 2000 2750	40		2000				2700 3024 3375				3750 4080 4440

NOTES:

1. CPT and rollout fuse drawer require a dedicated section.

2. All dimensions above are for single sections.

3. A single PT drawer (bus or line connected) can be installed above breaker.

4. NEMA 3R information above is a Non-Walkin type with a sloped roof.
   ESS Metron can provide custom NEMA 3R Walk-in or Power Distribution Center.

5. Consult factory for available UL listings.

MEDIUM VOLTAGE SWITCHGEAR - 27kV
Engineered, Manufactured, Assembled, and Tested to Meet Your Requirements

STANDARD FEATURES

1. Safe, Reliable, Quality Switchgear Which Meets or Exceeds ANSI C37.20.2 Metal-Clad Switchgear Standards
2. Available in 1200, 2000 and 2750 Amp Continuous Current, 16-40kA Short Circuit Ratings, and 125kV BIL
3. Roll-in MV Vacuum Breakers in 1 and 2 High Stack Configuration
4. Standard 36" Wide Footprint
5. Silver Washed Copper Bus w/ Fluidized Bed Epoxy Insulation and Boots.
6. NEMA 1 and NEMA 3R (Non Walk-In) Enclosures
7. Rugged Powder Coated Steel Structures for Industrial, Commercial and Utility Applications
8. Various Configurations Including PT Above Breaker
9. CPT and PT's in Various Ratings/Configurations All In Drawout Tray Configurations
10. Fully Tested to ANSI, IEEE and NEMA Standards
11. 1 Year Standard Warranty on Entire Line-up

OPTIONAL FEATURES

1. Utility Metering Enclosures
2. Custom Arrangements
3. Complex Mechanical and Electrical Interlocking
4. NEMA 3R Walk-in/Common Aisle Enclosures w/ Full Environmental and Utility Features
5. Power/Custom Metering
6. Automatic Transfer Schemes – Incoming Power Sources
7. Integration with Building Management Systems or Remote Monitoring Systems
8. Custom Bus Bar Configurations for Incoming/Outgoing or Matching to Existing/Other Equipment
9. Custom Mimic Bus
10. Complex Relay Protection
11. Special Paint Colors Available
12. Portable or Permanent Remote Control Stations
13. Arc Flash Mitigation
14. Custom Maintenance Switch Schemes for Arc Flash Reduction
15. Partial Discharge Analyzers
16. Ammeters/Test Button for Space Heaters
17. Remote Racking
18. Short Cycle Manufacturing Capabilities Available
19. Field Services Available
20. UL Listings Available
21. Turn Key Remote Substation or Remote Site Capabilities

   • Integrated Real Time Automation Control Systems
   • Embedded Computing Platforms
   • Alarm Monitoring
   • Reverse Power Monitoring
   • Power Export Metering
   • Remote Indication & Control
   • Fault Reporting & Logging