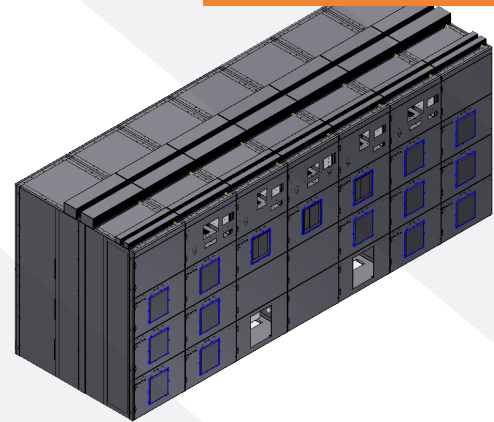




CUSTOM APPLICATIONS. INTEGRATED SOLUTIONS.

WWW.ESSMETRON.COM



CUSTOM PRODUCT DESIGN & APPLICATION ENGINEERING SUPPORT

ESS Metron offers custom UL1558 switchgear up to 6000 amps for type 1 and type 3R walk-in and non walk-in applications utilizing steel or stainless steel construction. Our switchgear is built and tested to ANSI C37.20.1 and C37.51 standards providing 60 cycle short circuit and short time ratings up to 100kAIC and 4 cycle ratings for 150kAIC and 200kAIC. Our type 3R version boasts the option of a UL tested and approved non walk-in design unique to the market.

Non-Fused Breaker Arrangements Up To 150kAIC

Max Rated Voltage	Rated Continuous RMS Current	Max Rated Short Circuit Current	Rated Short Circuit Cycles	Max Rated Short Time Current	Rated Short Time Cycles	NEMA 1 Minimums			NEMA 3R Minimums		
						Width	Depth	Height	Width	Depth	Height
635	800	100	60	100	60	22"	60"	94"	22"	65"	110"
635	1600	100	60	100	60	22"	60"	94"	22"	65"	110"
635	2000	100	60	100	60	22"	60"	94"	22"	65"	110"
635	3200	100	60	100	60	22"	60"	94"	22"	65"	110"
635	3200	150	4	100	60	32"	65"	94"	32"	70"	110"
635	4000	100	60	100	60	32"	60"	94"	32"	65"	110"
635	4000	150	4	100	60	32"	65"	94"	32"	70"	110"
635	5000	100	60	100	60	32"	60"	94"	32"	65"	110"
635	5000	150	4	100	60	32"	65"	94"	32"	70"	110"
635	6000	100	60	100	60	32"	60"	94"	32"	65"	110"
635	6000	150	4	100	60	32"	65"	94"	32"	70"	110"

Fused Breaker Arrangements 200kAIC

Max Rated Voltage	Rated Continuous RMS Current	Max Rated Short Circuit Current	Rated Short Circuit Cycles	Max Rated Short Time Current	Rated Short Time Cycles	NEMA 1 Minimums			NEMA 3R Minimums		
						Width	Depth	Height	Width	Depth	Height
635	800	200	4	100	60	22"	65"	94"	22"	70"	110"
635	1600	200	4	100	60	22"	65"	94"	22"	70"	110"
635	2000	200	4	100	60	22"	65"	94"	22"	70"	110"
635	3200	200	4	100	60	32"	65"	94"	32"	70"	110"
635	4000	200	4	100	60	32"	65"	94"	32"	70"	110"
635	5000	200	4	100	60	32"	65"	94"	32"	70"	110"
635	6000	200	4	100	60	32"	65"	94"	32"	70"	110"

LOW VOLTAGE SWITCHGEAR

Engineered, Manufactured, Assembled, and Tested to Meet Your Requirements



3R NON WALK-IN



3R WALK-IN



PARALLELING

STANDARD FEATURES

- 1 UL listed to UL1558 for type 1 and 3R walk-in and non walk-in construction.
- 2 Short Circuit ratings to 200kAIC at 6000 amps. Short Time ratings to 100kAIC at 60 cycles.
- 3 Maximum horizontal bus at 6000 amps.
- 4 Maximum vertical bus at 5000 amps.
- 5 Built and tested per ANSI C37.20.1 and C37.51.
- 6 For applications up to 635 volts, 50/60Hz, 3 phase 3 wire and 3 phase 4 wire.
- 7 Rugged corner post construction and standard powder coated structures for industrial, commercial, and utility applications.
- 8 Exterior paint processes meet ANSI C57.12.29 for coastal environments.
- 9 Robust Steel and Stainless steel construction.
- 10 Easily accessible wiring channels.
- 11 Available in standard 22" and 32" widths. Custom depths from 60".
- 12 UL 1066/ANSI fused and non-fused power circuit breakers from various manufacturers electrically and manually operated.
- 13 Isolated breaker cubicles, bus compartment, and rear cabling compartments.

OPTIONAL FEATURES

- 1 Custom transition sections for transformer connection.
- 2 Insulated bus bar.
- 3 Remote breaker racking.
- 4 Sectional heaters with thermostat or humidistat.
- 5 Power monitoring.
- 6 Integrated TVSS.
- 7 Top mounted traveling breaker lifting hoist.
- 8 Integrated high resistance grounding/neutral systems.
- 9 Automatic throw over (ATO) schemes - open & closed transition.
- 10 Custom integrated PLC controls.
- 11 Integration with building management and SCADA systems.
- 12 Custom metering and protective relaying.
- 13 Collective bus for multiple utility or generator feeds.
- 14 Paralleling/load shedding controls
 - a. Emergency or standby
 - b. Prime power
 - c. Co-gen
 - d. Controls for all types of generators
 - e. Load sharing for multiple generators
 - f. Speed and voltage control components
- 15 Field services for installation oversight and startup assistance available.
- 16 Construction and paint qualification for Coastal Environments per ANSI C57.12.29.