ADVANCED POWER TECHNOLOGIES

2.4kV-15kV Metal Enclosed Draw-out Vacuum Circuit Breaker Switchgear 72"D

MEA-Series (72" D) Metal Enclosed Switchgear

Solutions Brochure

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SAFE SMART SERVICEABLE SWITCHGEAR & ENGINEERED POWER SYSTEM SOLUTIONS

MADE IN THE USA

ALN: 542-2 Rev. 01

Standard Construction

Figure 1: Short Depth Switchgear Line-up perfect for tight space installations

Product Features

Product Features

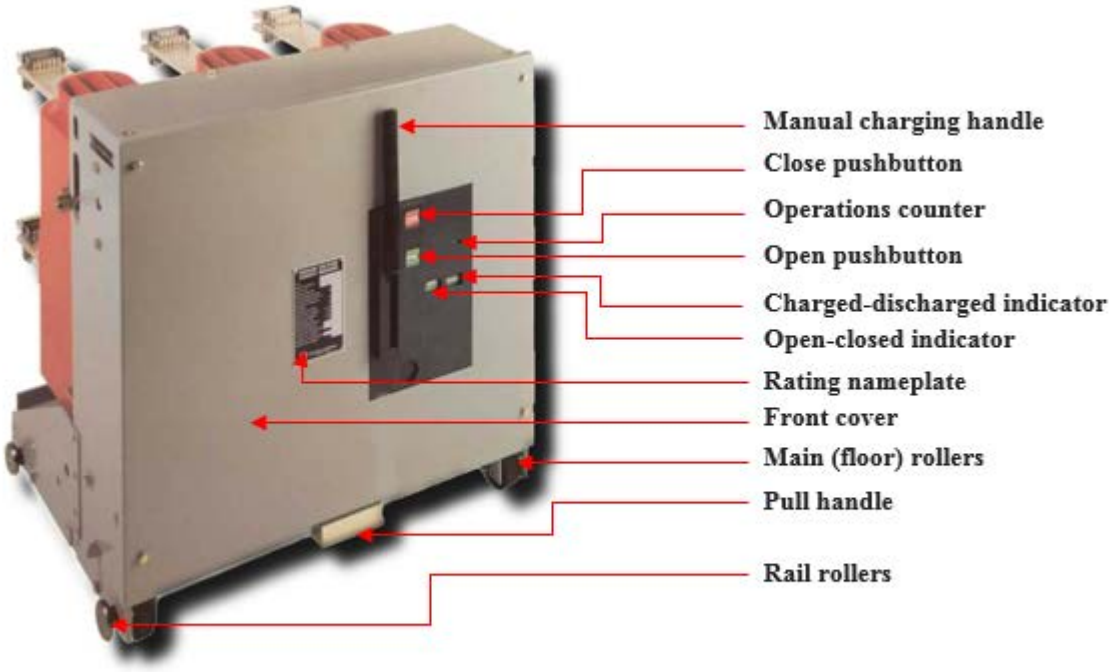
- Metal enclosed compact drawout circuit breaker-based design
- Drawout Vacuum Circuit Breaker with Test, Disconnected, and Connected Positions
- Silver plated copper line and load bus bar connections
- Voltage Transformers (Fixed or Drawer Mounted)
- Current Transformers are Front Accessible, Mounted on the primary insulating brushings behind the metal automatic shutters.
- Enclosure includes hinged front door with lockable T-handles

Optional Features

- Main Bus
- Power Metering
- Protective Relaying
- Main-Tie-Main Control
- Generator Paralleling
- Communication

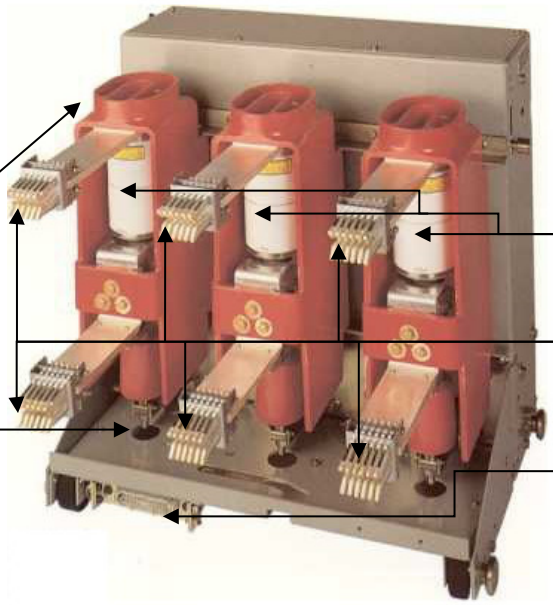
Product Specifications	
Voltage:	4.16kV – 15kV, 3 phase, 3 wire
Current:	1200A or 2000A
Enclosure:	NEMA 1 for indoor use NEMA 3R for Outdoor use Outdoor Walk-In Insulated Isle
Dimensions:	36” x 80”H x 72”D (Each Section)
Voltage Transformer Options:	Fixed Mounted Drawout Mounted

Product Overview



Circuit Breaker Front View

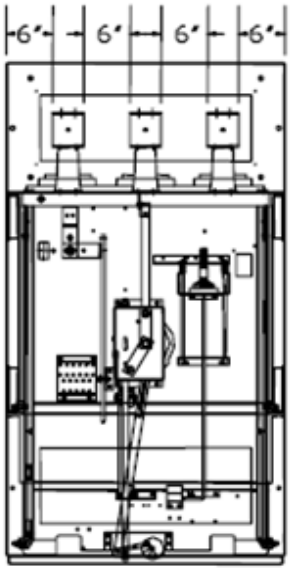
Circuit Breaker Ratings



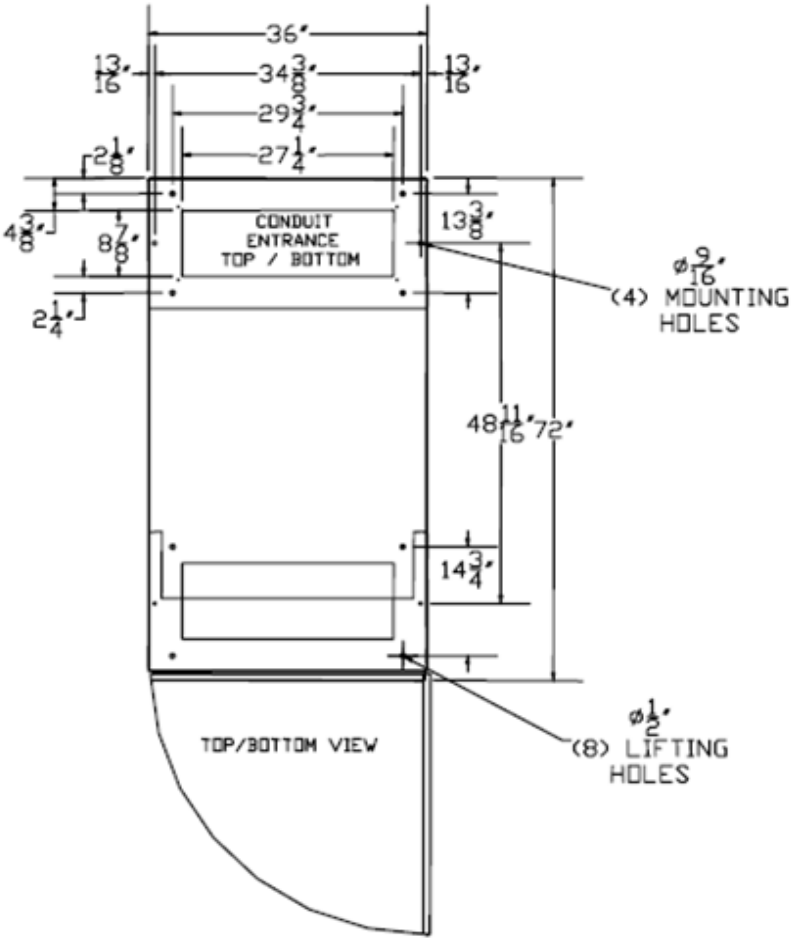
Circuit Breaker Rear View

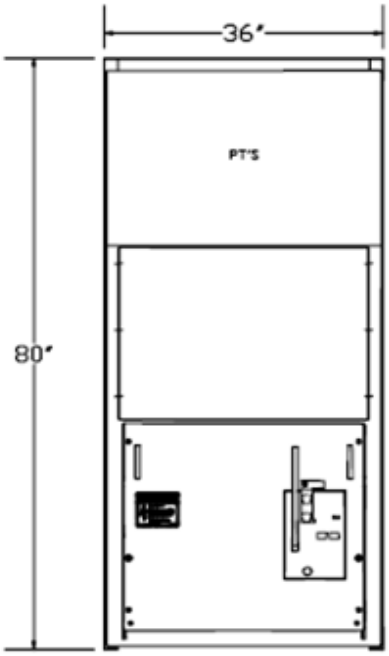
Nominal Rating		Rated Cont. Current 60 Hertz	Rated Voltages			Insulation Level Rated Withstand		Interrupting Ratings Amps.-Symmetrical			Asymmetrical Rating Factor	Short-Time 3 Sec. Rating	Close and Latch Rating	Interrupting Time
Three Phase MVA	Voltage		Max. Voltage	Range Factor	Min. Voltage	Low Frequency	Impulse 1.2 x 50µs	Max. kV	Nom. kV	Min. kV				
	kV RMS	A RMS	kV RMS	K	kV RMS	kV RMS	kV Crest	kA RMS	kA RMS	kA RMS	kA RMS	kA RMS	kA RMS	Cycles
250	4.16	1200	4.76	1.24	3.85	19	60	29.0	33.2	36.0	1.2	36.0	58.0	3
250	4.16	2000	4.76	1.24	3.85	19	60	29.0	33.2	36.0	1.2	36.0	58.0	3
350	4.16	1200	4.76	1.19	4.0	19	60	41.0	46.9	49.0	1.2	49.0	78.0	3
350	4.16	2000	4.76	1.19	4.0	19	60	41.0	46.9	49.0	1.2	49.0	78.0	3
500	7.20	1200	8.25	1.25	6.6	36	95	33.0	37.8	41.0	1.2	41.0	66.0	3
500	7.20	2000	8.25	1.25	6.6	36	95	33.0	37.8	41.0	1.2	41.0	66.0	3
500	13.8	1200	15.0	1.30	11.5	36	95	18.0	19.5	23.0	1.2	23.0	37.0	3
500	13.8	2000	15.0	1.30	11.5	36	95	18.0	19.5	23.0	1.2	23.0	37.0	3
750	13.8	1200	15.0	1.30	11.5	36	95	28.0	30.4	36.0	1.2	36.0	58.0	3
750	13.8	2000	15.0	1.30	11.5	36	95	28.0	30.4	36.0	1.2	36.0	58.0	3
1000	13.8	1200	15.0	1.30	11.5	36	95	37.0	40.2	48.0	1.2	48.0	77.0	3
1000	13.8	2000	15.0	1.30	11.5	36	95	37.0	40.2	48.0	1.2	48.0	77.0	3

Drawings

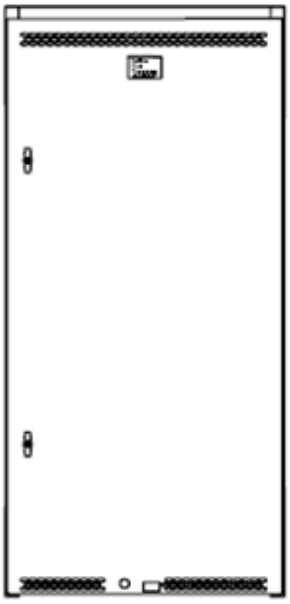


TOP/BOTTOM VIEW





FRONT VIEW INTERNAL



FRONT VIEW EXTERNAL

About Advanced Power Technologies



Advanced Power Technologies (APT) is on the cutting edge of the latest engineered power system smart technologies, as it relates to microgrid & storage management, renewable & conventional energy source deployment, demand peak shaving, and facility back-up and co-generation power systems. Located in the central United States and headquartered in Lafayette, Indiana with solutions development engineers around the country, APT provides domestic and international products and services to industry leading companies from around the world. APT engineers have decades of power system experience from working with some of the largest companies in industry. Over the last two decades, we have produced successful solutions for hundreds of large-scale electric power projects involving utility/generator paralleling, transfer, peak shaving, and distribution. We pride ourselves in providing electrical power systems that are engineered and custom built, utilizing state-of-the-art technologies to fit our customer's exact needs. The core of our business is low & medium voltage engineered power systems for a wide range of indoor & outdoor applications, such as:

- Utility(ies) and Generator(s) Paralleling/Transfer/Peak Shaving/Distribution Switchgear
- Microgrids, Microgrid Master Control Panels, SCADA systems
- Containerized Battery Energy Storage Systems (BESS)
- Photovoltaic (PV) Solar Power Collection/Distribution & Renewable Energy Storage Systems
- Low & High Resistance Grounding Systems, Grounding Systems for Photovoltaic Effective Grounding
- High Efficiency Combined Heat and Power Switchgear & Control Systems (CHP, Co-generation)
- Outdoor Walk-In Electrical Houses (E-Houses) & Skid-Mounted Switchgear
- Motor Control Centers & Motor Control Switchgear
- Automatic & Manual Load Transfer Switchgear
- Bypass/Isolation & Power Distribution Circuit Breaker Switchboards
- Generator/Loadbank Quick Connection Switchgear, Switchboards, & Tap Boxes
- Industrial Control Panels

Please see our product webpages on www.apt-power.com for product brochures and relevant information. Actual products may look different from images shown on the website and in brochures, based on actual specifications.
APT cares and understands that each power system is different. We will evaluate various solutions in order to develop the best solution for a site. APT focuses on our ability to a combine several traditional pieces of equipment/functionality into as little of a footprint possible. This saves on space, the cost of equipment, cost of installation, and accomplishes the most optimal/state-of-the-art design your facilities. APT's desires to foster and grow a culture of continued open communication with each customer. Let APT be your source to provide fully engineered power system equipment solutions for the full customer facility on time, on or under budget, and in the smallest footprint possible. We are always available to assist customers and engineers representing customers in the development of complex power solutions for all facility types.