

# 38kV Metal-Clad Medium Voltage Switchgear

IEM's medium voltage product line is available in the 38kV class in indoor, outdoor non-walk-in, and outdoor enclosures.

The 38kV mechanically complete switchgear rated for 40kA is also available with CSA certification when required and applicable, and tested per ASCE7-10 requirements to meet and exceed IBC & CBC codes.

## FEATURES & BENEFITS

- Voltage: 38kV
- Ampacity: 1200A
- Basic Insulation Level (BIL): 150kV (Breaker 170kV BIL)
- Breaker interrupter ratings: Up to 40kAIC
- Type 1: 42" W x 123" D x 95" H
- Type 3R: 42" W x 132" D x 107" H
- Advanced vacuum circuit breaker
- Metal-clad compartmentalized construction
- Main-tie-main automatic transfer scheme
- Rear access for load and incoming connections
- Indoor or outdoor applications
- Breaker & PT can be constructed into one section (feeder only)

**ANSI/IEEE C37.20.2**  
Metal-Clad Switchgear

**ANSI/IEEE C37.04**  
Rating Structure for High Voltage Circuit Breakers

**ANSI/IEEE C37.54**  
Indoor HV Breakers in Metal Enclosure Conformance Test

**ANSI/IEEE C37.55**  
Medium Voltage Metal-Clad Assemblies

**ANSI/IEEE C37.09**  
Test Procedure for AC HV Breakers on Sym Current basis

**CSA Certified**



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Product Sheet  
38 KV SWITCHGEAR

## VACUUM CIRCUIT BREAKER

- Full Roll on the floor – No accessories required (Lift truck, ramp, etc.)
- Manual and electrical (motor) spring charging
- Front Operation and front access to operating mechanism
- AC or DC auxiliary voltage
- Under voltage release and second shunt trip optional
- Capacitor trip device –Internal or external when AC required
- Standard fast interruption: 3 Cycles
- SIS – 600V secondary wiring
- 4NO + 4NC auxiliary contacts

- Operation counter and charge/discharge spring indicator
- Front access to position indicator
- Safe and reliable flexible secondary disconnect signals



## BREAKER RATINGS

Circuit Breaker Type	Rated Maximum Voltage (kV)	Nominal Voltage Class (kV)	Frequency (Hz)	Rated Voltage Range Factor (K)	Insulation / Withstand Class		Current				Rated Transient Recovery Voltage (TRV)			Rated Permissible Tripping Delay (YSec)	Operation Time		Rated Operating Sequence	Auxiliary Contacts
					Power Frequency 1 min (kvrms)	Lighting Impulse 1.2X50 μS (kV)	Rated Current (A)	Rated Breaking Current (kA)	Rated Making Current (kAp)	Rated Short Circuit Time Withstand -3 sec (kA)	Rated Crest Voltage (kVCrest)	Rated Time to Crest (T2 μS)	Rated Rise of Recovery Volt		Opening Time (Sec)	Breaking Time (Cycles)		
VIDER VVA	38	34.5	60	1.0	80	170	1200A 2000A	40	104	40	65.2	109	0.6	2	0.05	3	0-C-0	4 A/B

### Industrial Electric Mfg.™ (IEM)

Headquartered in Fremont, CA, IEM is the largest independent full-line manufacturer of electrical distribution and integrated control systems in the U.S. For over half a century, IEM has delivered customer-specific solutions to meet the ever changing power requirements of growth industries in North America. At IEM, tradition and technology still drive innovation. An experienced engineering staff and one of the most flexible design and manufacturing systems in the industry set IEM apart from standard product manufacturers.



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