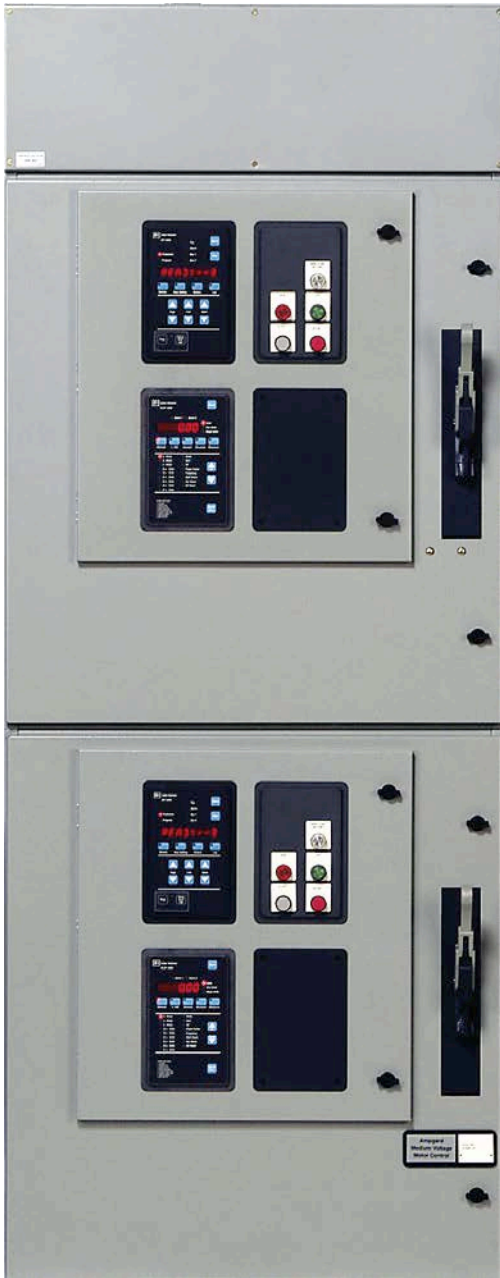


# The premier medium-voltage solution



## Product offering

- Ratings: 2300 V–15,000 V
- 300 A, 400 A and 800 A contactors
- 200–8000 hp
- Induction, synchronous and wound rotor starters
- Full voltage, reduced voltage and solid-state starters
- Main, tie and feeder switches
- Main breakers
- Disconnects for transformer feeders
- NEMA® 1/1A/12/3R type enclosures. Arc-resistant enclosures also available

## Industry applications

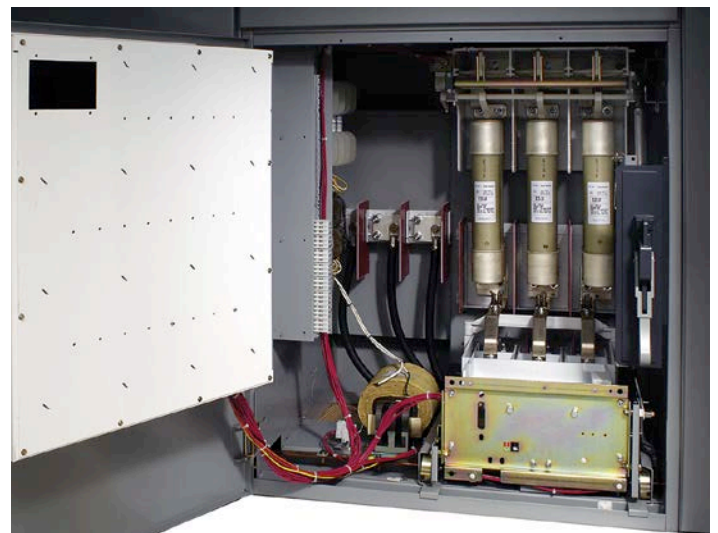
- Chiller/HVAC
- Oil and gas
- Water/waste treatment
- Pulp and paper
- Mining

## Customer benefits

- **Improved uptime**  
Highest contactor short-circuit rating in the industry improves fuse coordination
- **Improved maintainability**  
Easily removable contactor, fuses and isolation switch
- **Increased reliability**  
Isolation switch capable of 10,000 operations
- **Increased safety**  
Isolated compartments, cable channels and low-voltage wireway
- **Reduced installation cost**  
Top-mounted bus allows easy access to joints to connect shipping sections or other equipment

## Standards

- NEMA/ANSI ICS-3
- UL® 347
- CSA®
- Seismic certification
- Arc-resistant to IEEE® C37.20.7-2007 (optional)
- Manufactured in an ISO 9001 and ISO 14001 certified facility



**EATON**

Powering Business Worldwide

Type "SL" vacuum contactor ratings 400 A frame

Voltage usage rating	Interrupting rating (kA)		Application table					Maximum insulation voltage
	NEMA unfused (E1)	NEMA fused (E2)	Induction motor hp	Synchronous motor hp		Transformer (kVA)	Capacitor ①	
				0.8 PF	1.0 PF			
2200–2500	8.5	50	1750	1750	2000	1500	1200 kvar	7200
3000–3600	8.5	50	2250	2250	2500	2000	1650 kvar	7200
3800–4800	8.5	50	3000	3000	3500	2250	2100 kvar	7200
6000–6900	8.5	50	4500	4500	5500	4000	3300 kvar	7200

① Ratings not applicable for back-to-back switching. Consult factory for back-to-back switching applications.

Specifications

Description	Rating	Description	Rating
<b>Maximum interrupting current</b> (3 operations)	8500 A	<b>Dropout voltage</b>	60% rated coil voltage
<b>Rated current</b>	400 A enclosed	<b>Control voltages</b>	
<b>IEC make-break capability—AC4</b>		AC/Hz	110/50, 120/60, 220/50, 240/60
Make	4000 A	DC	125
Break	3200 A	<b>Control circuit burden</b>	
<b>Short time current</b>		Closing 100–125 V	1 kVA
30 seconds	2400 A	200–240 V	1.8 kVA
1 second	6000 A	Holding 100–125 V	40 VA
8.7 ms (0.5 cycle)	63 kA peak	200–240 V	50 VA
<b>Normal service altitude</b>	–1000 to +2000 m	<b>Auxiliary contact rating</b>	
<b>Mechanical life</b>	2.5 million	Voltage (maximum)	600 V
<b>Electrical life</b>		Continuous current	10 A
AC3	300,000 operations	Making capacity (ac)	7200 VA
AC4	300,000 operations	Making capacity (dc)	125 VA
<b>Impulse withstand</b>	60 kV (1.2 x 50 microseconds)	Breaking capacity (ac)	720 VA
<b>Dielectric strength</b>	20 kV rms (1 minute)	Breaking capacity (dc)	125 VA
<b>Closing time</b> (energization to contact touch)	80 ms	<b>Latch (when specified)</b>	
<b>Opening times (selectable)</b> (approximate values)	30–330 ms	Mechanical life	250,000 operations
<b>Arcing time</b>	12 ms (0.75 cycle) or less	Trip voltage (dc)	24 V
<b>Pickup voltage</b>	80% rated coil voltage	Trip voltage (dc)	125 V
		Trip voltage (ac)	110/120 V
		Minimum trip voltage	80% rated coil voltage
		Trip burden	400 VA
		Trip time	30 ms
		<b>Weight</b>	49 lb

Note: Specifications for other frame sizes are available in Eaton's *Consulting Application Guide* or on the web at [Eaton.com/ampgard](http://Eaton.com/ampgard)

To learn more, visit:  
[Eaton.com/ampgard](http://Eaton.com/ampgard)

**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

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