Vacuum Limitamp®
2-High, Medium-Voltage
Motor Control (CR194)

Introducing GE's new 2-high
compact or draw-out design

5kV 400A stationary vacuum contactor
design

2-high stacking with full top/bottom
compartment isolation

Bolted frame construction provides an
accurate and simple building platform.

Industry's smallest size: 36"W x 30"D x
90"H (optional 40" width available)

Roomy, door-in-door low voltage
compartments

Epoxy insulated main and vertical bus

1200A or 2000A main bus ratings

Front or rear accessible main bus with
matching line-up to existing Limitamp

Available in NEMA 1, 1A, 2 or 12 indoor
enclosures; NEMA 3R outdoor walk-in
or non-walk-in

UL/CSA approved

Now Available in
Both Stationary and
Draw-out Designs

GE Electrical Distribution & Control
Low Voltage Compartments

Multiple terminal points are accessible with either low or medium voltage doors open.

Clean, neat white interior panels; easy access and ample space for numerous control options.

Large door mounting surface permits multiple relays and metering packages, including MultiLin, MultiLin Draw-out and GE Lodtrak devices.

Fully isolated and interlocked low/medium voltage compartments.

Tough polyester paint — 2-mil baked coating thickness — provides 1,000-hour salt-spray protection.

Matching front and rear line-up with all existing Limitamp® controllers (including Air Break).

UL 347 listed, NEMA ICS 2-324 conformance, CSA certified.

Rugged door-in-door design features great flexibility, safety and high density.

Front and rear access to horizontal and vertical epoxy bus.

All new rigid bolted frame provides greater structural strength and flexibility.

Ventilated and non-ventilated enclosure options.
Medium Voltage Compartments

Large field wiring terminal access with fully isolated upper and lower compartments.

Quick make/quick break isolation switch:
- Visible blade with clear on/off indication
- Positive over center, independent action
- Mechanically interlocked with contactor, assuring safe non-load break operation

Fast-acting, high-interrupting current limiting fuses:
- 5kV EJ1 or EJ2
- Reliable bolted design with blown fuse indicator and contactor open lockout
- Clip fuses optional
- Full front access and removal (no special tools required)

Simple draw-out channels supporting removable contacts featuring line and load stab connections.

Industry-proven 400A vacuum contactor featuring:
- Low maintenance, high reliability
- Easy coil access and simple contact wear check without contactor removal
- Light weight, fast & easy change-out if required
- Full interlocking for optimum safety including up to 10 auxiliary contacts

Wide door opening for easy component and wiring access

Front accessible control power transformer (2kVA std., 3kVA opt.) including integral fuse holder.
**Key Product Specifications**

**Main AC Horizontal Bus Ratings**
- 1200A or 2000A (1950A non-ventilated)
- 50 KA rms sym short circuit
- Tin or silver plating available
- Epoxy insulation
- Matching line-up with all existing Limitamps® (including Air Break)

**Current Ratings (amps)**
- Vented: 360 top/400 bottom
- Non-vented: 320 top/320 bottom

**Fuse ratings**

<table>
<thead>
<tr>
<th>Class E1 mVA</th>
<th>25 at 2.5kV</th>
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<tbody>
<tr>
<td>Class E2 mVA</td>
<td>50 at 5.0kV</td>
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| 2400 volts         | 200         |
| 3600 volts         | 300         |
| 4160 volts         | 350         |
| 4800 volts         | 400         |

**Contactor Ratings - CR193B**

- Short-time current (amps)
  - 30 seconds: 2400
  - 1 second: 6000
- Impulse withstand (kV): 60
- Dielectric strength (kV) 1 minute: 13.25
- Switching frequency (ops/hour): 1200
- Mechanical life (ops): 2,000,000
- Electrical life (ops): 1,000,000
- Closing time (max MS): 350
- Opening time (max. MS) switched at coil: 50
- Pick-up voltage (% of rated): 85% max.
- Drop out voltage (% of rated): 10%-65%
- Control voltage (volts) requires rectification: 110/115 AC
- Control circuit burden (VA)
  - Closing: 175
  - Hold-in: 30
- Contactor weight: 75 lbs. (35 kg)
- Standards applicable: UL 347
  - NEMA ICS 2-32
  - CSA

**References:**
- Technical brochure GET-6840
- Instruction book GEH-6263

**GE Electrical Distribution & Control**

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