The Eaton RGX is specifically designed to meet regenerative and low harmonic needs through the use of an active, bidirectional power converter on the front end of a common DC bus drive. The RGX provides dynamic performance for great motor handling, eliminating the need for an external resistor or mechanical braking, thus simplifying system design. It also delivers superior reliability, reducing total current distortion to 2–3%. The active front end design offers great energy savings and design compatibility for a wide range of applications.
## Specifications

### Input Ratings
- **Input voltage (Vin):** 380–500 Vac / 525–690 Vac ±10%
- **Input frequency (f1):** 48–63 Hz
- **Short-circuit withstand rating:** 100 kAIC
- **Connection to power:** Once per minute or less (typical operation)

### Output Ratings
- **Output voltage:** 1.35 x Vin
- **Continuous output current (I):**
  - Ambient temperature: +50 °C, overloadability 1.5 x I
  - Ambient temperature: +40 °C, overloadability 1.1 x I
- **Initial output current (I0):** 250% for 2 seconds
- **Output frequency:** 0–320 Hz
- **Frequency resolution:** 0.01 Hz

### Catalog numbering system

#### Style/Product

<table>
<thead>
<tr>
<th>Output</th>
<th>480 V</th>
<th>575 V</th>
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<tbody>
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<tr>
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</tr>
<tr>
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<tr>
<td>H10</td>
<td>1630 A</td>
<td>900 hp</td>
</tr>
</tbody>
</table>

#### Control Options
- **A:** No brake chopper / low overload
- **B:** No brake chopper / high overload

#### Brake/Overload
- **A:** Start-stop pushbutton with HOA switch (6)
- **B:** Start-stop pushbutton

#### Enclosure
- **1:** Type 1
- **6:** Type 1 filtered

#### Power Disconnect Options
- **0:** None
- **1:** HMCP disconnect
- **2:** Circuit breaker
- **3:** Circuit breaker/SPD

#### Bypass Options
- **0:** None
- **1:** Manual HOA bypass
- **2:** Manual HOA bypass/isolation fusing
- **3:** Manual HOA bypass/isolation fusing/SPD
- **4:** Manual HOA bypass
- **5:** Manual HOA bypass
- **J:** Manual HOA bypass/isolation fusing
- **L:** Manual HOA bypass/isolation fusing/SPD
- **P:** Manual HOA bypass

#### Light Options
- **0:** None
- **1:** Non-bypass—22 mm power on, run, fault indicator lights
- **2:** Bypass—22 mm power on, VFD run, fault, bypass run indicator lights

### Enclosure Options
- **0:** None

### Option Boards 2
- **0:** No option
- **1:** 3 x DI, 3 x DO, 1 thermistor, 24 Vdc/EXT
- **2:** 1 x AI, 2 x AO (isolated to control board)
- **3:** 3 x relay dry contact (2NO + 1NO/NC)
- **4:** 4 x PT100 RTD
- **5:** 6 DI 240 Vac input

### Option Boards 1
- **0:** No option
- **1:** 3 x DI, 3 x DO, 1 thermistor, 24 Vdc/EXT
- **2:** 1 x AI, 2 x AO (isolated to control board)
- **3:** 3 x relay dry contact (2NO + 1NO/NC)
- **4:** 3 x PT100 RTD
- **5:** 6 DI 240 Vac input

### Option Boards
- **0:** No option
- **1:** PROFIBUS® DP
- **2:** LonWorks®
- **3:** CANopen (slave)
- **4:** DeviceNet®

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