Elastimold® recloser
Smart. Light. Flexible.
The need for automated reclosers has never been greater. Unfortunately, many of today’s reclosers come with negatives. They weigh too much, and that makes them difficult to install. They aren’t easy to upgrade, so you have to guess about what features to include in case you need them several years from now. What’s more, if the recloser you stock doesn’t come with superior technical support, service and built-in quality, you may find it worse than having no recloser at all.

The Elastimold recloser addresses all of these issues, and more.

Weighing no more than 58 lbs. as a single-phase unit and 211 lbs. as a three-phase unit, the Elastimold recloser’s light weight makes it easier and less costly to install. Modular design means smart grid sensors can be added quickly and simply. Our recloser is compatible with both Schweitzer Engineering Laboratories (SEL®) and Beckwith Electric controls. The ABB Elastimold experts’ customer support, technical expertise and collaborative working relationships with customers mean that you will have the information you need, exactly when you need it.
Now, as the industry implements smart grid technologies, our world-class designs, engineering and quality-rated production facilities, combined with exceptional after-sale support and training, have been applied to the next-generation recloser.

**Support and service — best in the business**
The Elastimold brand is known for uncommon candor and fast, knowledgeable, user-oriented technical support. Lead times for the Elastimold recloser are short. From the first day you install it, no question is too small to receive our complete technical attention. If assistance is needed, our response will be swift — often immediate.

We offer unmatched customer service to go with world-class technical support, top warranties and training in all phases of installation and operation. Your crews will know exactly what we know about the Elastimold recloser.

SEL controls are compatible with all configurations of the Elastimold recloser. Beckwith Electric controls are only compatible with three-phase and triple-single configurations.
Elastimold recloser — MVR
Smart, light and flexible

The Elastimold recloser is world-class by design. It responds to every hardware requirement that utilities want, and then some.

- **Smart** — Our recloser is smart grid ready with three integral load-side voltage sensors and provision to add source-side voltage sensors, if desired. It is compatible with industry-leading controls from Schweitzer Engineering Laboratories and Beckwith Electric Co.
- **Light** — Weighing no more than 58 lbs. as a single-phase unit and 211 lbs. as a three-phase unit, the Elastimold recloser’s light weight makes it easier and less costly to install. The simplicity of the mechanism design and the compactness of the encapsulated components contribute to making the Elastimold recloser easier to move and install.
- **Flexible** — The Elastimold recloser is modular, so field upgrades and retrofits are easy and fast. The single-phase recloser has a pole rotation mounting bracket for easier installation.
- **Made with your needs in mind** — We designed the Elastimold recloser only after extensive talks with electric utilities. Its characteristics, from easier-to-see open/close indicators to the many robust extra features that we consider “standard” are there because of our customers.
**Recloser operation**
The Elastimold molded vacuum recloser (MVR) operates electrically by energizing a magnetic actuator system with a completely sealed housing. Each pole contains a vacuum interrupter sealed in solid dielectric insulation for mechanical and high dielectric strength.

An open-closed position indicator provides a 360° view. An external manual trip assembly is located on the side; when in the down position, it maintains the recloser in a lockout position until it is manually restored. All electrical control connections are made through a sealed single-environment control cable connector on the side.

The combination of the molded vacuum recloser with microprocessor controls accurately detects a wide range of line disturbances and provides reliable, high-speed isolation for adverse conditions.
Elastimold recloser — MVR
Features and benefits

- **Smart grid ready**
  Integral current transformer (CT) (1000:1/500:1 flexibility) and load-side voltage sensors; with provisions to add Elastimold source-side voltage sensors.

- **Compatible with industry-leading controls:**
  SEL® controls
  - SEL-351R
  - SEL-351RS Kestrel®
  - SEL-351R Falcon™
  - SEL-651R-2

Notes: Use with the SEL-351R and SEL-351R Falcon requires connection via MVR power module. The power module is connected to the recloser via a 6’ 32-pin cable. Voltage sensors require SEL-651R-2 control with six 8 V AC LEA inputs.

SEL is a registered trademark of Schweitzer Engineering Laboratories, Inc. Kestrel is a registered trademark.
FEATURES AND BENEFITS

Typical control settings
A range of controls is available for the Elastimold recloser. A typical control includes:
- Overcurrent protection—fast and delay curves
- Sensitive earth fault
- Complete metering
- Recloser wear monitor
- Loop automation
- Fault locator
- Flexible control logic and integration
- Supervisory control and data acquisition (SCADA) ready—multiple communications protocols
- Load profile

Compatible with industry-leading controls:
Beckwith recloser control M-7679 R-PAC
- Embedded cyber security including:
  - Role-based security
  - Complex passwords
  - Individual user accounts with activity log
  - IPSec (VPN) tunnel
  - Compatible with radius password management systems
  - IEEE 1686 compliant with additional features and functions to help customers with NERC CIP V5
- Compatible with both three-phase and triple-single reclosers
- Recloser status monitoring tool displays real-time reclosing sequence and fault clearing time
- Connects with 32-pin cable
Elastimold recloser — MVR
Features and benefits

**Lightweight**
Internal diaphragm and silicone rubber sheds reduce weight.

**Proven solid dielectric insulation**
Molded EPDM main body with overlapping silicone rubber sheds for improved dielectric weatherability and UV performance.

**Simplified mechanism**
Translates into a lightweight device.

<table>
<thead>
<tr>
<th></th>
<th>15 kV</th>
<th>27 kV</th>
<th>38 kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single-phase</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td>100 lb.</td>
<td>100 lb.</td>
<td>100 lb.</td>
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<tr>
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<td>57 lb.</td>
<td>57 lb.</td>
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<td>standard</td>
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<tr>
<td>Others</td>
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<td>58 lb.</td>
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<td></td>
</tr>
<tr>
<td>standard</td>
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<td></td>
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</tr>
<tr>
<td>Others</td>
<td>130 lb.</td>
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<td>208 lb.</td>
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<tr>
<td>Elastimold</td>
<td>58 lb.</td>
<td>430 lb.</td>
<td>211 lb.</td>
</tr>
<tr>
<td>standard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td>211 lb.</td>
<td>430 lb.</td>
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</tr>
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<td>Elastimold</td>
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<td></td>
<td></td>
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<tr>
<td>standard</td>
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<tr>
<td>Three-phase</td>
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<td></td>
</tr>
<tr>
<td>Others</td>
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<tr>
<td>Others</td>
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<td>211 lb.</td>
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<tr>
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<td>208 lb.</td>
<td>430 lb.</td>
<td>211 lb.</td>
</tr>
<tr>
<td>standard</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Three-phase</td>
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<td></td>
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<tr>
<td>Others</td>
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<td>Elastimold</td>
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<td>26.3 kg.</td>
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<tr>
<td>Others</td>
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<td>26.3 kg.</td>
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<td>Elastimold</td>
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<td></td>
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<tr>
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<tr>
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<td>94.3 kg.</td>
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<tr>
<td>Others</td>
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<td>94.3 kg.</td>
<td>94.3 kg.</td>
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<tr>
<td>Elastimold</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>standard</td>
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<td></td>
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<tr>
<td>Three-phase</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
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<td>150 kg.</td>
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<td>Elastimold</td>
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<td>195 kg.</td>
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<td>standard</td>
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<tr>
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<td>195 kg.</td>
</tr>
<tr>
<td>Elastimold</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>standard</td>
<td></td>
<td></td>
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</tbody>
</table>
FEATURES AND BENEFITS

Modular design
Optimized modular design is lightweight and maintenance-free*. Design is modular and allows for individual pole or shed replacement if ever required.

*Because it uses no oil or gas to potentially leak and require monitoring and maintenance, the Elastimold recloser is considered maintenance-free.

Pole rotation mount
The single-phase recloser has a unique pole rotation mounting bracket for easier installation and 0° to 180° repositioning.

Note: PPE should be worn.
Elastimold recloser — MVR
Features and benefits

**Easy-to-see position indicator**
360° position indicator view with large color-coded reflective open/closed indicators on bottom of recloser for easy visibility from ground level.

**Reliable long-life mechanism**
The state-of-the-art design of our magnetic actuator offers over 10,000 trip and close operations with no maintenance required.*

*Because it uses no oil or gas to potentially leak and require monitoring and maintenance, the Elastimold recloser is considered maintenance-free.

**Single- and three-phase tripping capabilities**
The fast and highly reliable electrically ganged operation provides flexibility of simultaneous three-phase tripping or single-phase tripping with three-phase lockout.

The manual trip lever is mechanically linked to trip and lock out all three phases simultaneously.

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**Magnetic actuator**

Closed indication

Open indication

Trip handle normal, closed position

Open and locked-out position

Close phase position

Trip phase position
**Features and Benefits**

Reduced inventory items
Incorporating extra features and extended capabilities as standard can result in reduced inventory needs.

<table>
<thead>
<tr>
<th>Rated max. voltage</th>
<th>15 kV</th>
<th>27 kV</th>
<th>38 kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous current (A)</td>
<td>630</td>
<td>800</td>
<td>630</td>
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<tr>
<td>BIL (kV)</td>
<td>95</td>
<td>150</td>
<td>125</td>
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</table>

<table>
<thead>
<tr>
<th>Pollution level</th>
<th>Required creep in. (mm)</th>
<th>Elastimold standard in. (mm)</th>
<th>Required creep in. (mm)</th>
<th>Elastimold standard in. (mm)</th>
<th>Required creep in. (mm)</th>
<th>Elastimold standard in. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I – Light</td>
<td>9.8 (248)</td>
<td>—</td>
<td>17.0 (432)</td>
<td>—</td>
<td>23.9 (608)</td>
<td>—</td>
</tr>
<tr>
<td>II – Medium</td>
<td>12.2 (310)</td>
<td>—</td>
<td>21.3 (540)</td>
<td>—</td>
<td>30.0 (760)</td>
<td>—</td>
</tr>
<tr>
<td>III – Heavy</td>
<td>15.3 (388)</td>
<td>—</td>
<td>26.6 (675)</td>
<td>—</td>
<td>37.4 (950)</td>
<td>—</td>
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<tr>
<td>IV – Very heavy</td>
<td>18.9 (481)</td>
<td>41.5 (1054)</td>
<td>33.0 (837)</td>
<td>41.5 (1054)</td>
<td>46.4 (1178)</td>
<td>51.0 (1295)</td>
</tr>
</tbody>
</table>
Elastimold recloser — MVR

Installation

Typical recloser installation detail
Arresters are recommended to provide protection against overvoltage conditions. When arresters are installed, they should be mounted on the supplied arrester brackets or as close to the recloser as practical.
Elastimold recloser — MVR
Dimensions — single-phase reclosers

15 kV and 27 kV
single-phase reclosers

38 kV
single-phase recloser

Note: All dimensions are shown in in. (mm).
Elastimold recloser — MVR
Dimensions — three-phase reclosers

15 kV and 27 kV
three-phase reclosers

38 kV
three-phase recloser

Note: All dimensions are shown in in. (mm).
**Typical pole installations**

Dimensions — triple-single cluster-mounting frame

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**15 kV, 27 kV and 38 kV**

**triple-single cluster-mounting frame**

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Note: All dimensions are shown in in. (mm).
Typical pole installations
Dimensions — triple-single pole-mounting frame

15 kV, 27 kV and 38 kV
triple-single pole-mounting frame

Note: All dimensions are shown in in. (mm).
Typical pole installations
Dimensions — single and three-phase reclosers

15 kV, 27 kV and 38 kV
single-phase recloser

15 kV, 27 kV and 38 kV
three-phase recloser

Note: All dimensions are shown in in. (mm).
## Typical pole installations

### Electrical characteristics

### Ratings and specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>15 kV</th>
<th>27 kV</th>
<th>38 kV*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal system voltage (kV RMS)</td>
<td>14.4</td>
<td>25</td>
<td>35</td>
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<tr>
<td>Rated maximum voltage (kV RMS)</td>
<td>17.1</td>
<td>29.3</td>
<td>38</td>
</tr>
<tr>
<td>Nominal frequency (Hz)</td>
<td>50 or 60</td>
<td>50 or 60</td>
<td>50 or 60</td>
</tr>
<tr>
<td>Phase spacing on 3-phase units (inches)</td>
<td>15.5</td>
<td>15.5</td>
<td>15.5</td>
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<tr>
<td>BIL (kV)</td>
<td>150</td>
<td>150</td>
<td>170</td>
</tr>
<tr>
<td>Power frequency withstand – dry (kV)</td>
<td>50</td>
<td>60</td>
<td>70</td>
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<tr>
<td>Power frequency withstand – wet (kV)</td>
<td>45</td>
<td>50</td>
<td>60</td>
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<tr>
<td>Continuous current (A RMS)</td>
<td>800</td>
<td>800</td>
<td>800</td>
</tr>
<tr>
<td>Eight-hour overload current (A RMS)</td>
<td>960</td>
<td>960</td>
<td>960</td>
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<tr>
<td>CT ratio</td>
<td>1000/500:1</td>
<td>1000/500:1</td>
<td>1000/500:1</td>
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<tr>
<td>Interrupting current (kA RMS symmetrical)</td>
<td>12.5</td>
<td>12.5</td>
<td>12.5</td>
</tr>
<tr>
<td>Making current (kA asymmetrical peak)</td>
<td>32.5</td>
<td>32.5</td>
<td>32.5</td>
</tr>
<tr>
<td>Creepage distances – inches (line to ground)</td>
<td>41.5</td>
<td>41.5</td>
<td>51</td>
</tr>
<tr>
<td>Arc-extinction medium</td>
<td>Vacuum</td>
<td>Vacuum</td>
<td>Vacuum</td>
</tr>
<tr>
<td>Insulation medium</td>
<td>EPDM/silicone rubber</td>
<td>EPDM/silicone rubber</td>
<td>EPDM/silicone rubber</td>
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<tr>
<td>Mechanical operations</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
</tr>
<tr>
<td>Normal operating temperatures</td>
<td>-10 °C to 45 °C</td>
<td>-10 °C to 45 °C</td>
<td>-10 °C to 45 °C</td>
</tr>
<tr>
<td>Normal operating conditions voltage sensor accuracy (load/line)</td>
<td>±3%/1%</td>
<td>±3%/1%</td>
<td>±3%/1%</td>
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<tr>
<td>Extreme operating temperatures</td>
<td>-40 °C to 65 °C</td>
<td>-40 °C to 65 °C</td>
<td>-40 °C to 65 °C</td>
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<tr>
<td>Extreme operating conditions voltage sensor accuracy (load/line)</td>
<td>5%/1%</td>
<td>5%/1%</td>
<td>5%/1%</td>
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<tr>
<td>CT accuracy</td>
<td>Class 1</td>
<td>Class 1</td>
<td>Class 1</td>
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<tr>
<td>Weight (single-phase/three-phase)</td>
<td>57/208 lbs.</td>
<td>57/208 lbs.</td>
<td>58/211 lbs.</td>
</tr>
</tbody>
</table>

* Single-phase 38 kV units are rated for use on grounded systems only. Three-phase 38 kV units can be used for single-phase tripping on grounded systems only. For ungrounded systems, three-phase tripping is required.
Elastimold MVRs are tested under the requirements of ANSI C37.60-2003. This table highlights the testing covered in Elastimold Test Report # 372-17-12010.

<table>
<thead>
<tr>
<th>C37.60-2003 Standard clause and description</th>
<th>15 kV MVR compliance</th>
<th>27 kV MVR compliance</th>
<th>38 kV MVR compliance</th>
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</thead>
<tbody>
<tr>
<td>6.2 Insulation (dielectric) tests</td>
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<td>6.3 Switching tests</td>
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<tr>
<td>6.4 Making current capability</td>
<td>✓</td>
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<td>✓</td>
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<tr>
<td>6.5 Operating duty tests</td>
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<td>✓</td>
</tr>
<tr>
<td>6.6 Minimum tripping current tests</td>
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<td>✓</td>
<td>✓</td>
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<tr>
<td>6.7 Partial discharge (corona) tests</td>
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<tr>
<td>6.10 Temperature rise tests</td>
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<td>6.11 Time-current tests</td>
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<td>6.12 Mechanical duty tests</td>
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<td>6.13 Surge withstand capability (SWC) tests</td>
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Ordering information
Molded vacuum recloser catalog numbering system

The following diagram shows how to construct a catalog number for a molded vacuum recloser:

- Indicates field that must be filled in to complete the full catalog number.
- Indicates optional field

### Product type
- Recloser R

### Phases
- Single phase 1
- Three phase (single tank) 3
- Triple single (3 - single) 4

### Voltage class
- 15 kV 1
- 27 kV 2
- 38 kV 3

### Frame description
- Pole mounting frame for MVR1 1
- Pole mounting frame for MVR3 3
- Adjustable height substation frame for 3-phase (single-tank) 5
- Standard cluster mounting for triple single C
- Horizontal mounting frame for triple-single H
- Pole mounting for triple single P
- Vertical mounting for triple single V
- Custom frame F

### Control power transformer (CPT)
- None (customer-supplied) X
- 15 kV class 1
- 7200: 120 V, 1 kVA, 1PRI/1SEC (single bushing) 1A
- 7620: 120 V, 1 kVA, 1PRI/1SEC (single bushing) 1B
- 7960: 120 V, 1 kVA, 1PRI/1SEC (single bushing) 1C
- 13200: 120 V, 1 kVA, 2PRI/2SEC (two bushing) 1D
- 27 kV Class 2
- 13200: 120 V, 1 kVA, 1PRI/1SEC (single bushing) 2A
- 14400: 120 V, 1 kVA, 1PRI/1SEC (single bushing) 2B
- 13200: 120 V, 1 kVA, 2PRI/2SEC (two bushing) 2C
- 14400: 120 V, 1 kVA, 2PRI/2SEC (two bushing) 2D
- 38 kV class 3
- 19920: 120 V, 1 kVA, 1PRI/1SEC (single bushing) 3A
- 4 kV class 4
- 2300: 120 V, 1 kVA, 1PRI/1SEC (single bushing) 4A
- Dual primary 4B
- 14400 V/7200 V, 120 V (dual primary), 1 kVA DA
- Customer-specified PT CS

### Control model
- Ships without control (customer-supplied) X
- 651R standard A
- 651R premium B
- 651R AC transfer (applicable with dual PTs) C
- 651R customer selected D
- 651R customer special E
- 351R standard F
- 351R premium G
- 351R customer selected H
- 351RS Kestrel standard I
- 351RS Kestrel premium J
- 351RS Kestrel customer selected K
- 351RS Falcon standard L
- 351RS Falcon premium M
- 351RS Falcon customer selected N
- Beckwith M-7679 R-PAC standard O
- Beckwith M-7679 R-PAC premium P
- Beckwith M-7679 R-PAC customer special Q

### Control cable length and type
- Unit ships without cable X
- 6', standard (for single-phase only) A
- 20', standard B
- 25', standard C
- 30', standard D
- 35', standard E
- 40', standard F
- 45', standard G
- 50', standard H
- 55', standard I
- 75', standard J
- 100', standard K
- 20', 1st 10' armored L
- 25', 1st 10' armored M
- 30', 1st 10' armored N
- 35', 1st 10' armored O
- 40', 1st 10' armored P
- 45', 1st 10' armored Q
- 50', 1st 10' armored R
- 55', 1st 10' armored S
- 60', full length armored T
- 65', full length armored U
- 75', full length armored V
- 100', full length armored W
- 20', full length armored X
- 25', full length armored Y
- 30', full length armored Z
- 35', full length armored 0
- 40', full length armored 1
- 45', full length armored 2
- 50', full length armored 3
- 60', full length armored 4
- 75', 1st 10' armored 5
- 100', full length armored 6
- Special cable 7

### Notes:
- Single-phase reclosers function with the SEL-351RS Kestrel control.
- Three-phase reclosers function with SEL-651R-2, SEL-351R or SEL-351R Falcon controls. The MVR power module must be specified when using a SEL-351R or SEL-351R Falcon control.
- Load-side voltage sensors are standard on all units and function with any SEL control having at least three 8 V AC, 1M LEA inputs (LEA voltage inputs are not used with a SEL-351R or SEL-351R Falcon control).
- All units are upgradeable to source-side voltage sensing but require a SEL-651RX2XG control with six 8 V AC, 1M LEA inputs.
**ORDERING INFORMATION**

- **Control type**
  - **SEL-351RS Kestrel®**
  - **SEL-351R**
  - **SEL-351R Falcon**
  - **SEL-651R-2**
  - **Beckwith M-7679 R-PAC**

- **SEL-351RS Kestrel®**
  - 1-Phase: 10/14-pin cable
  - 3-Phase: X
  - Triple-single: X

- **SEL-351R**
  - 1-Phase: X
  - 3-Phase: 14-pin cable
  - Triple-single: X

- **SEL-351R Falcon**
  - 1-Phase: X
  - 3-Phase: 14-pin cable
  - Triple-single: X

- **SEL-651R-2**
  - 1-Phase: X
  - 3-Phase: 32-pin cable
  - Triple-single: 32-pin cable

- **Beckwith M-7679 R-PAC**
  - 1-Phase: X
  - 3-Phase: 32-pin cable
  - Triple-single: 32-pin cable

**Notes:**
1. Use with the SEL-351R or SEL-351R Falcon control requires connection via MVR power module. The power module is connected to the recloser via a 6 ft. 32-pin cable.
2. Voltage sensors require 8 V AC, 1M LEA inputs.

**SEL** is a registered trademark of Schweitzer Engineering Laboratories, Inc.
# Ordering information

## Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
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<tbody>
<tr>
<td>Three-phase line-side arrester frame</td>
<td>3188D0120G1</td>
</tr>
<tr>
<td>Three-phase load-side arrester frame</td>
<td>3188D0121G2</td>
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<tr>
<td>Single-phase line-side arrester frame</td>
<td>3188C0122G1</td>
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<tr>
<td>Single-phase load-side arrester frame</td>
<td>3188C0123G1</td>
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<tr>
<td>Single-phase line and load-side arrester frame</td>
<td>3188C0474G1</td>
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<tr>
<td>Horizontal mounting frame</td>
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<tr>
<td>Cluster mounting frame</td>
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<tr>
<td>Wildlife protector top bushing (one per phase)</td>
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<tr>
<td>Wildlife protector side bushing (one per phase)</td>
<td>3070A1190P1</td>
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<tr>
<td>Source-side voltage sensors (one per phase)</td>
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<tr>
<td>Substation mounting frame</td>
<td>3188D0119G1</td>
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<td>NEMA 2-hole terminal lug kit</td>
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<tr>
<td>NEMA 4-hole pad</td>
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<tr>
<td>Aerial lug</td>
<td>3070B1302P1</td>
</tr>
</tbody>
</table>

* Source-side voltage sensors for triple-single applications require different cable lengths. Contact your ABB representative for part number.
Ask us about the Elastimold recloser today. The Elastimold recloser team is eager to further demonstrate the benefits of this premier product. For additional technical information and details, contact us today.