Bypass switches

Type B-1 and type B-2

Answers for energy.
Eliminate voltage regulator bypass switch problems with type B-1 and type B-2

Overview

Type B-1
The Bridges Electric™ type B-1 regulator bypass switch is a simple and rugged three-bladed disconnect switch. Each blade is independently operated and is readily visible to the operator. The major safety feature of the type B-1 is that the bypass blade can be visually checked to ensure that it is open. This helps eliminate the possibility of the regulator being short-circuited when it is restored to service. Many available options and accessories make the type B-1 a flexible solution for regulator bypass schemes.

Type B-2
The Bridges Electric type B-2 oil circuit recloser (O.C.R.) (or regulator) bypass switch utilizes the same blade and contact material as the type B-1. Its design provides clearance for an O.C.R. bypass scheme, but can be used as a regulator bypass. Versatility is provided with optional backplate sets for underhung mounting or an angled pole bracket for mounting directly to the pole. Many available options and accessories make the type B-2 a flexible solution for O.C.R. and regulator bypass schemes.
Note: Add these suffixes to catalog numbers for the option described

C = Polymer insulator
H = Loadbreak hooks
K = Cable connector
#6 - 397.5 MCM ACSR
#6 - 500 MCM copper

P = Pole mount bracket
QB = Quick break
T = Tinned terminal pads
X = Backplate set

Example: “610CQBT = type B-1, 15 kV, 110 kV BIL, 600 A, polymer insulators, quick break, tinned terminal pads”
**Details**

Type B-1 regulator bypass: 900 A

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**Note:** Add these suffixes to catalog numbers for the option described

- **C** = Polymer insulator
- **H** = Loadbreak hooks
- **K** = Cable connector
- **#6 - 397.5 MCM ACSR**
- **#6 - 500 MCM copper**
- **P** = Pole mount bracket
- **QB** = Quick break
- **T** = Tinned terminal pads
- **X** = Backplate set

Example: “630CQBT = Type B-1, 15 kV, 110 kV BIL, 900 A, polymer insulators, quick break, tinned terminal pads”
**Details**

**Type B-1 regulator bypass: 1,200 A**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>NOM kV</th>
<th>MAX kV</th>
<th>kV BIL</th>
<th>Amps</th>
<th>Dimensions - inches</th>
<th>Insulators</th>
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<tr>
<td></td>
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**Note:** Add these suffixes to catalog numbers for the option described

- **C** = Polymer insulator
- **P** = Pole mount bracket
- **QB** = Quick break
- **T** = Tinned terminal pads
- **X** = Backplate set

Example: “625CQBT = Type B-1, 15 kV, 110 kV BIL, 1,200 A, polymer insulators, quick break, tinned terminal pads”
**Details**

Type B-1 regulator bypass:
600 A with Saf-T-Gap interrupter (600 A loadbreak)

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**Note:** Add these suffixes to catalog numbers for the option described

- C = Polymer insulator
- K = Cable connector
- #6 - 397.5 MCM ACSR
- #6 - 500 MCM copper
- P = Pole mount bracket

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**Rating data**

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<tr>
<th>Cat. no.</th>
<th>NOM kv</th>
<th>MAX kv</th>
<th>kV BIL</th>
<th>Amps</th>
<th>Cont.</th>
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<th>C</th>
<th>D</th>
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**Dimensions - inches**

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<th>Cat. no.</th>
<th>NOM kv</th>
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</table>

**T =** Tinned terminal pads

**X =** Backplate set

Example: "675CT = Type B-1, 15 kV, 110 kV BIL, 600 A, polymer insulators, tinned terminal pads"
Type B-1 regulator bypass:
900 A with Saf-T-Gap interrupter (600 A loadbreak)

Note: Add these suffixes to catalog numbers for the option described

C = Polymer insulator
K = Cable connector
#6 - 397.5 MCM ACSR
#6 - 500 MCM copper
P = Pole mount bracket
T = Tinned terminal pads
X = Backplate set

Example: “695CT = Type B-1, 15 kV, 110 kV BIL, 900 A, polymer insulators, tinned terminal pads”
Details

Type B-1 regulator bypass:
1,200 A with Saf-T-Gap interrupter (600 A loadbreak)

### Rating data

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>NOM kV</th>
<th>MAX kV</th>
<th>KV BIL</th>
<th>Amps</th>
<th>Cont. Mom.</th>
<th>Insulators</th>
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### Dimensions - inches

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<th>Dimensions</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<th>J</th>
<th>K</th>
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</table>

**Note:** Add these suffixes to catalog numbers for the option described

- T = Tinned terminal pads
- X = Backplate set
- C = Polymer insulator
- P = Pole mount bracket

Example: "685CT = Type B-1, 15 kV, 110 kV BIL, 1,200 A, polymer insulators, tinned terminal pads"
The Type B-1 regulator bypass disconnects are available with quick break and pole bracket options.

Quick break option

Pole bracket option
Details

Type B-2: O.C.R. (or regulator) bypass 600 A

Note: Add these suffixes to catalog numbers for the option described

C = Polymer insulator
H = Loadbreak hooks
K = Cable connector
#6 - 397.5 MCM ACSR
#6 - 500 MCM copper
P = Pole mount bracket
T = Tinned terminal pads
X = Backplate set
L = Bypass blade in “left hand” position
01 = Angled bypass blade

Example: “603-01CPT = Type B-2, 15 kV, 110 kV BIL, 600 A, angled bypass blade, polymer insulators, pole mount bracket, tinned terminal pads”

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Rating data</th>
<th>Dimensions - inches</th>
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* Grounded wye system only
## Details

**Type B-2: O.C.R. (or regulator) bypass 900 A**

![Diagram](image-url)

<table>
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<th>MAX kV</th>
<th>kV BIL</th>
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<th>40,000 kW</th>
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</table>

*Grounded wye system only

**Note:** Add these suffixes to catalog numbers for the option described:

- **C** = Polymer insulator
- **H** = Loadbreak hooks
- **K** = Cable connector
- **#6 - 397.5 MCM ACSR**
- **#6 - 500 MCM copper**
- **P** = Pole mount bracket
- **T** = Tinned terminal pads
- **X** = Backplate set
- **L** = Bypass blade in “left hand” position
- **01** = Angled bypass blade

Example: “604-01CPT = Type B-2, 15 kV, 110 kV BIL, 900 A, angled bypass blade, polymer insulators, pole mount bracket, tinned terminal pads”
### Details

**Type B-2: O.C.R. (or regulator) bypass substation style – 600 A**

Add these suffixes to catalog numbers for the option described:

- **C** = Polymer insulator
- **H** = Loadbreak hooks
- **K** = Cable connector
- **#6 - 397.5 MCM ACSR**
- **#6 - 500 MCM copper**
- **P** = Pole mount bracket
- **T** = Tinned terminal pads
- **X** = Backplate set
- **L** = Bypass blade in “left hand” position

Example: “605CPT = Type B-2, 15 kV, 110 kV BIL, 600 A, polymer insulators, pole mount bracket, tinned terminal pads”

<table>
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<tr>
<th>Cat. no.</th>
<th>NOM kV</th>
<th>MAX kV</th>
<th>kv BIL</th>
<th>kV BIL</th>
<th>Amps</th>
<th>Dimensions - inches</th>
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</tbody>
</table>
Details

Type B-2: O.C.R. (or regulator) bypass substation style – 900 A

Note: Add these suffixes to catalog numbers for the option described

- C = Polymer insulator
- H = Loadbreak hooks
- K = Cable connector
- #6 - 397.5 MCM ACSR
- #6 - 500 MCM copper
- P = Pole mount bracket
- T = Tinned terminal pads
- X = Backplate set
- L = Bypass blade in “left hand” position

Example: “606CPT = Type B-2, 15 kV, 110 kV BIL, 900 A, polymer insulators, pole mount bracket, tinned terminal pads”

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<th>MAX kV</th>
<th>kV BIL</th>
<th>Amps Cont.</th>
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Options

Mounting bracket options
Three-phase recloser bypass assembly

- Three type B-2 recloser bypass switches factory installed on an aluminum or fiberglass arm
- Aluminum or fiberglass arm mounted on adjustable pole gain, which provides the option of angling assembly based upon field conditions
- Single-point lift bracket
- Stable switching action while allowing for a visible indication of a break in the circuit
- Easy identification of the load and source sides in equipment while the circuit is in its normal configuration
- Bypass blades can be easily recognized as open or closed

Contact factory for application information