## SIEMENS

Ingenuity for life

Bypass switches
Type B-1 and type B-2

## Type B-1 and B-2



> Eliminate certain voltage regulator bypass switch problems

## Type B-1

The 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 shortcircuited 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 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.



| Cat. no. | Rating data |  |  |  |  | Dimensions - inches |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Insulators |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \mathrm{NOM} \\ \mathrm{kV} \end{gathered}$ | $\begin{aligned} & \text { MAX } \\ & \mathrm{kV} \end{aligned}$ | $\begin{aligned} & \text { kV } \\ & \text { BIL } \end{aligned}$ | Amps |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Cont. | Mom. | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q |  |
| 610 | 14.4 | 15 | 110 | 600 | 40,000 | 4 | 2 | 28 | 30 | 5 | 8 | 12 | 8 | 10.8 | 11.8 | 14.3 | 15.3 | 11.5 | 19.7 | 29.7 | $21 / 4^{\prime \prime}$ |
| 710 | 23 | 25 | 150 | 600 | 40,000 | 4 | 2 | 31 | 33 | 5 | 10 | 15 | 10 | 12.8 | 13.8 | 16.3 | 17.3 | 14.5 | 22.7 | 32.7 | D.B.C. |
| 615 | 14.4 | 15 | 110 | 600 | 40,000 | 4 | 2 | 31 | 33 | 5 | 10 | 15 | 10 | 12.8 | 13.8 | 16.3 | 17.3 | 14.5 | 22.7 | 32.7 |  |
| 715 | 23 | 25 | 150 | 600 | 40,000 | 4 | 2 | 34 | 36 | 5 | 14 | 18 | 14 | 16.8 | 17.8 | 20.3 | 21.3 | 17.5 | 25.7 | 35.7 | 3" D.B.C. |
| 815 | 34.5 | 38 | 200 | 600 | 40,000 | 6 | 2 | 40 | 42 | 5 | 18 | 24 | 18 | 20.8 | 21.8 | 20.3 | 21.3 | 23.5 | 31.7 | 41.7 |  |

Note: Add suffixes below to catalog numbers for the option described:
$\mathrm{C}=$ Polymer insulator
H = Loadbreak hooks
$\mathrm{K}=$ Cable connector
\#6-397.5 MCM ACSR
\#6-500 MCM copper
P = Pole mount bracket
$\mathrm{QB}=$ Quick break
$\mathrm{T}=$ Tinned terminal pads
X = Backplate set

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


| Cat. <br> no. | Rating data |  |  |  |  | Dimensions - inches |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Insulators |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NOM kV | $\begin{aligned} & \text { MAX } \\ & \mathrm{kV} \end{aligned}$ | $\begin{aligned} & \text { kV } \\ & \text { BIL } \end{aligned}$ | Amps |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Cont. | Mom. | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q |  |
| 630 | 14.4 | 15 | 110 | 900 | 40,000 | 4 | 2 | 28 | 30 | 5 | 8 | 12 | 8 | 10.8 | 11.8 | 14.3 | 15.3 | 11.5 | 19.7 | 29.7 | 2 1/4" |
| 730 | 23 | 25 | 150 | 900 | 40,000 | 4 | 2 | 31 | 33 | 5 | 10 | 15 | 10 | 12.8 | 13.8 | 16.3 | 17.3 | 14.5 | 22.7 | 32.7 | D.B.C. |
| 635 | 14.4 | 15 | 110 | 900 | 40,000 | 4 | 2 | 31 | 33 | 5 | 10 | 15 | 10 | 12.8 | 13.8 | 16.3 | 17.3 | 14.5 | 22.7 | 32.7 |  |
| 735 | 23 | 25 | 150 | 900 | 40,000 | 4 | 2 | 34 | 36 | 5 | 14 | 18 | 14 | 16.8 | 17.8 | 20.3 | 21.3 | 17.5 | 25.7 | 35.7 | 3" D.B.C. |
| 835 | 34.5 | 38 | 200 | 900 | 40,000 | 6 | 2 | 40 | 42 | 5 | 18 | 24 | 18 | 20.8 | 21.8 | 20.3 | 21.3 | 23.5 | 31.7 | 41.7 |  |

Note: Add suffixes below to catalog numbers for the option described:
$\mathrm{C}=$ Polymer insulator
H = Loadbreak hooks
$\mathrm{K}=$ Cable connector
\#6-397.5 MCM ACSR
\#6-500 MCM copper
$\mathrm{P}=$ Pole mount bracket
$\mathrm{QB}=$ Quick break
$\mathrm{T}=$ Tinned terminal pads
X = Backplate set

Example:
" $630 \mathrm{CQBT}=$ Type B-1, 15 kV ,
110 kV BIL, 900 A, polymer
insulators, quick break, tinned terminal pads"


Rating data

| Cat. | $\begin{gathered} \text { NOM } \\ \mathrm{kV} \end{gathered}$ | MAX kV | kV BIL | Amps |  | Dimensions - inches |  |  |  |  |  |  |  |  |  |  |  | Insulators |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| no. |  |  |  | Cont. | Mom. | A | B | C | D | E | F | G | H | J | K | L | M |  |
| 625 | 14.4 | 15 | 110 | 1,200 | 61,000 | 6 | 3 | 37 | 39 | 19 | 10 | 10 | 13.3 | 14.8 | 17.4 | 31 | 41 | 3" D.B.C. |
| 725 | 23 | 25 | 150 | 1,200 | 61,000 | 6 | 3 | 40 | 42 | 22 | 10 | 14 | 17.3 | 18.8 | 20.4 | 34 | 44 |  |
| 825 | 34.5 | 38 | 200 | 1,200 | 61,000 | 6 | 3 | 46 | 48 | 28 | 10 | 18 | 21.3 | 22.8 | 26.4 | 40 | 50 |  |

Note: Add suffixes below to catalog numbers for the option described:
$\mathrm{C}=$ Polymer insulator
$\mathrm{P}=$ Pole mount bracket
$\mathrm{QB}=$ Quick break
$\mathrm{T}=$ Tinned terminal pads
X = Backplate set

Example:
" $625 \mathrm{CQBT}=$ Type B-1, $15 \mathrm{kV}, 110 \mathrm{kV}$ BIL, 1,200 A, polymer insulators, quick break, tinned terminal pads" with Saf-T-Gap interrupter (600 A loadbreak)


| Cat. no. | Rating data |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Insulators |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { NOM } \\ \text { kV } \end{gathered}$ | $\begin{aligned} & \text { MAX } \\ & \mathrm{kV} \end{aligned}$ | $\begin{aligned} & \text { kV } \\ & \text { BIL } \end{aligned}$ | Amps |  | Dimensions - inches |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Cont. | Mom. | A | B | C | D | E | F | G | H | J | K | L | M |  |
| 675 | 14.4 | 15 | 110 | 600 | 40,000 | 4 | 2 | 31 | 33 | 15 | 8 | 10 | 13.8 | 16.3 | 14.5 | 23.25 | 33.4 |  |
| 775 | 23 | 25 | 150 | 600 | 40,000 | 4 | 2 | 34 | 36 | 18 | 8 | 14 | 16.8 | 17.5 | 17.5 | 26.25 | 36.4 | 3" D.B.C. |
| 875 | 34.5 | 38 | 200 | 600 | 40,000 | 6 | 3 | 40 | 42 | 24 | 12 | 18 | 20.8 | 21.3 | 23.5 | 32.25 | 42.4 |  |

Note: Add suffixes below to catalog numbers for the option described:
$\mathrm{C}=$ Polymer insulator
$K=$ Cable connector
\#6-397.5 MCM ACSR
\#6-500 MCM copper
P = Pole mount bracket
$\mathrm{T}=$ Tinned terminal pads
X = Backplate set


| Cat. <br> no. | Rating data |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Insulators |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \mathrm{NOM} \\ \mathrm{kV} \end{gathered}$ | MAX <br> kV | $\begin{aligned} & \text { kV } \\ & \text { BIL } \end{aligned}$ | Amps |  | Dimensions - inches |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Cont. | Mom. | A | B | C | D | E | F | G | H | J | K | L | M |  |
| 695 | 14.4 | 15 | 110 | 900 | 40,000 | 4 | 2 | 31 | 33 | 15 | 8 | 10 | 13.8 | 16.3 | 14.5 | 23.25 | 33.4 |  |
| 795 | 23 | 25 | 150 | 900 | 40,000 | 4 | 2 | 34 | 36 | 18 | 8 | 14 | 16.8 | 17.5 | 17.5 | 26.25 | 36.4 | 3" D.B.C. |
| 895 | 34.5 | 38 | 200 | 900 | 40,000 | 6 | 3 | 40 | 42 | 24 | 12 | 18 | 20.8 | 21.3 | 23.5 | 32.25 | 42.4 |  |

Note: Add suffixes below to catalog numbers for the option described:
$\mathrm{C}=$ Polymer insulator
$\mathrm{K}=$ Cable connector
\#6-397.5 MCM ACSR
\#6-500 MCM copper
$\mathrm{P}=$ Pole mount bracket
$\mathrm{T}=$ Tinned terminal pads
X = Backplate set

Example:
"695CT = Type B-1, 15 kV,
110 kV BIL, 900 A, polymer insulators, tinned terminal pads" with Saf-T-Gap interrupter (600 A loadbreak)


| Cat. no. | Rating data |  |  |  |  | Dimensions - inches |  |  |  |  |  |  |  |  |  |  |  | Insulators |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NOM kV | $\begin{aligned} & \text { MAX } \\ & \mathrm{kV} \end{aligned}$ | $\begin{aligned} & \text { kV } \\ & \text { BIL } \end{aligned}$ | Amps |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Cont. | Mom. | A | B | C | D | E | F | G | H | J | K | L | M |  |
| 685 | 14.4 | 15 | 110 | 1,200 | 61,000 | 5 | 2 | 37 | 39 | 19 | 10 | 10 | 13.3 | 14.8 | 17.4 | 31.6 | 41.6 |  |
| 785 | 23 | 25 | 150 | 1,200 | 61,000 | 5 | 2 | 40 | 42 | 22 | 10 | 14 | 17.3 | 18.8 | 20.4 | 34.6 | 44.6 | 3" D.B.C. |
| 885 | 34.5 | 38 | 200 | 1,200 | 61,000 | 6 | 3 | 46 | 48 | 28 | 10 | 18 | 21.3 | 22.8 | 26.4 | 40.6 | 50.6 |  |

Note: Add suffixes below to catalog numbers for the option described:
$\mathrm{C}=$ Polymer insulator
P = Pole mount bracket
$\mathrm{T}=$ Tinned terminal pads
X $=$ Backplate set

Example:
" 685 CT = Type B-1, 15 kV , 110 kV BIL, 1,200 A, polymer insulators, tinned terminal pads"

Options
The Type B-1 regulator bypass disconnects are available with quick break and pole bracket options.


Quick break option



| Cat. no. | Rating data |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NOM | $\begin{aligned} & \text { MAX } \\ & \text { kV } \end{aligned}$ | $\begin{aligned} & \text { kV } \\ & \text { BIL } \end{aligned}$ | Amps |  | Dimensions - inches |  |  |  |  |  |  |
|  | kV |  |  | Cont. | Mom. | A | B | C | D | E | F | G |
| 603 | 14.4 | 15 | 110 | 600 | 40,000 | 15.8 | 12 | 8 | 12.97 | 12 | 22.5 | 12 |
| 703 | 23 | 25 | 150 | 600 | 40,000 | 18.8 | 15 | 10 | 14.97 | 15 | 25.5 | 15 |
| 803 | 34.5 | 38* | 150 | 600 | 40,000 | 21.8 | 18 | 10 | 14.97 | 18 | 30 | 18 |

* Grounded wye system only

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

C = Polymer insulator
H = Loadbreak hooks
$\mathrm{K}=$ Cable connector
\#6-397.5 MCM ACSR
\#6-500 MCM copper
P = Pole mount bracket
$\mathrm{T}=$ 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"

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



| Cat. no. | Rating data |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { NOM } \\ \mathrm{kV} \end{gathered}$ | $\begin{aligned} & \text { MAX } \\ & \mathrm{kV} \end{aligned}$ | $\begin{aligned} & \text { kV } \\ & \text { BIL } \end{aligned}$ | Amps |  | Dimensions - inches |  |  |  |  |  |  |
|  |  |  |  | Cont. | Mom. | A | B | C | D | E | F | G |
| 604 | 14.4 | 15 | 110 | 900 | 40,000 | 15.8 | 12 | 8 | 12.97 | 12 | 22.5 | 12 |
| 704 | 23 | 25 | 150 | 900 | 40,000 | 18.8 | 15 | 10 | 14.97 | 15 | 25.5 | 15 |
| 804 | 34.5 | 38* | 150 | 900 | 40,000 | 21.8 | 18 | 10 | 14.97 | 18 | 30 | 18 |

* Grounded wye system only

Note: Add suffixes below to catalog numbers for the option described:
$\mathrm{C}=$ Polymer insulator
H = Loadbreak hooks
K = Cable connector
\#6-397.5 MCM ACSR
\#6-500 MCM copper
P = Pole mount bracket
$\mathrm{T}=$ 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"


| Cat. no. | Rating data |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NOM | MAXkV | $\begin{aligned} & \text { kV } \\ & \text { BIL } \end{aligned}$ | Amps |  | Dimensions - inches |  |  |  |  |  |  |
|  | kV |  |  | Cont. | Mom. | A | B | C | D | E | F | G |
| 605 | 14.4 | 15 | 110 | 600 | 40,000 | 19.3 | 15 | 10 | 15.6 | 15 | 27.25 | 15 |
| 705 | 23 | 25 | 150 | 600 | 40,000 | 22.3 | 18 | 14 | 19.6 | 18 | 30.25 | 18 |
| 805 | 34.5 | 38 | 200 | 600 | 40,000 | 28.5 | 24 | 18 | 23.6 | 24 | 36.25 | 24 |

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

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

Example:
" $605 \mathrm{CPT}=$ Type B-2, 15 kV ,
110 kV BIL, 600 A, polymer
insulators, pole mount bracket, tinned terminal pads"


| Cat. no. | Rating data |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NOM kV | MAX kV | $\begin{aligned} & \text { kV } \\ & \text { BIL } \end{aligned}$ | Amps |  | Dimensions - inches |  |  |  |  |  |  |
|  |  |  |  | Cont. | Mom. | A | B | C | D | E | F | G |
| 606 | 14.4 | 15 | 110 | 900 | 40,000 | 19.3 | 15 | 10 | 15.6 | 15 | 27.25 | 15 |
| 706 | 23 | 25 | 150 | 900 | 40,000 | 22.3 | 18 | 14 | 19.6 | 18 | 30.25 | 18 |
| 806 | 34.5 | 38 | 200 | 900 | 40,000 | 28.5 | 24 | 18 | 23.6 | 24 | 36.25 | 24 |

Note: Add suffixes below 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
$\mathrm{T}=$ 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"

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



Siemens Industry, Inc. 99 Bolton Sullivan Drive Heber Springs, Arkansas 72543

For more information, including service or parts, please contact our Customer Support Center. Phone: +1 (800) 333-7421
usa.siemens.com/disconnectswitches
Order No.: E50001-F630-A117-1-4A00
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