

Disconnect Switches

The 9422 disconnect switches are the ideal selections for the PV String Combiner Box's internal disconnect switch and control panel applications. These switches are designed for variable depth, flange mounting, traditional side mounting and bracket mounting applications providing complete flexibility in the PV string combiner box designs. The switches are compatible with 9422A handle operators and 9423 door mechanisms and are UL98 recognized (E52369 Vol. 1, Sec. 18) and CSA certified. See [Accessories](#), [page 8-17](#), [Dimensions](#), [page 8-20](#), and [Disconnect Switches—400 A Type TG](#), [page 8-21](#) for dimensional information.

Table 8.42: 9422 Disconnect Switches, Flange Mounted and Variable Depth

| Disconnect Switch Size | Variable Depth Min.–Max. (in.) | Maximum Horsepower Ratings | | | | | | Fuse Type | Fuse Clip Rating (Ampere) Non-Interchangeable Type For Class H, J, K or R Fuses | | Switch and Operating Mechanism Only, Does Not Include Handle Mechanism | Switch for Use With Cable Operators ONLY, Does Not Include Handle Mechanism or Cable Operator [1] | Switch and Operating Mechanism and Handle Mechanism, Overpacked[2] | | | |
|--------------------------|--------------------------------|--------------------------------|-----------|-----------|-----------|-----|-----|------------|---|-------|--|---|--|--------------|-----------------------------------|-----------------------------------|
| | | AC Systems Volts (Motor Volts) | | | | Vdc | | | 250 V | 600 V | | | Cat. No. [3] | Cat. No. [3] | Includes Type A1 Handle Mechanism | Includes Type A2 Handle Mechanism |
| | | 208 (200) | 240 (230) | 480 (460) | 600 (575) | 250 | 600 | | | | | | | | Cat. No. [3] | Cat. No. [3] |
| 30 A | 6.625–18 | 7.5 | 7.5 | 15 | 20 | 5 | 15 | None | — | — | TCN30 | TCN30C | ATCN301 | ATCN302 | | |
| | | | | | | | | H, J, K, R | 30 | — | TCF30 | TCF30C | ATCF301 | ATCF302 | | |
| | | | | | | | | | 60 | 30 | TCF33 | TCF33C | ATCF331 | ATCF332 | | |
| 60 A | 6.625–18 | — | 15 | 30 | 50 | 10 | 30 | None | — | — | TDN60 | TDN60C | ATDN601 | ATDN602 | | |
| | | | | | | | | H, J, K, R | 60 | 30 | TDF60 | TDF60C | ATDF601 | ATDF602 | | |
| | | | | | | | | | — | 60 | TDF63 | TDF63C | ATDF631 | ATDF632 | | |
| 100 A | 6.625–18 | 25 | 30 | 60 | 75 | 20 | 50 | None | — | — | TEN10 | TEN10C | ATEN101 | ATEN102 | | |
| | | | | | | | | H, J, K, R | 100 | 100 | TEF10 | TEF10C | ATEF101 | ATEF102 | | |
| | | | | | | | | | — | — | TF1 | — | ATF11 | ATF21 | | |
| 200 A | 9.12–19.25 [4] | 40 | 60 | 125 | 150 | 40 | 50 | H, J, K, R | 200 | 200 | TF2 | — | ATF12 | ATF22 | | |
| | | | | | | | | | — | 400 | TF3 [5] | — | ATF13 [5] | ATF23 [5] | | |
| | | | | | | | | None | — | — | — | — | — | — | | |
| 400 A Fixed Depth [6] | 11.38 (A5 or A6 Handle) | 75 | 125 | 250 | 350 | 50 | 50 | None | — | — | TG1 [7][8] | — | For handle selection, see Table 8.42, page 8-17. | | | |
| 400 A Variable Depth [6] | 15.87–19 (A7 or A8 Handle) [9] | | | | | | | H, J, K, R | 400 | 400 | TG2 [7][10] | — | | | | |



9422 TCN30



Bracket Mounted Disconnect Switch

The 9422 Bracket Mount Disconnect Switch is designed for combiner boxes and control panel applications. The Bracket Mount Disconnect Switch is shipped with the switch and external handle assembled to a bracket, ready for quick installation. A protective trim plate is provided to prevent any mounting screws from being accessible from the front. The trim plate also provides an attractive installation feature. The switches are fully compatible with the 9423 closing mechanisms.

Table 8.43: 9422 Bracket Mounted Disconnect Switches

| Disconnect Switch Size | Maximum Horsepower Rating | | | | | | Fuse Type | Fuse Clip Rating (A) Non-Interchangeable Type for Class H, J, K, or R Fuses | | Switch and Operating Mechanism Only | |
|------------------------|---------------------------|-----------|-----------|-----------|-----|-----|------------|---|-------|-------------------------------------|---------------|
| | AC Systems (Motor Volts) | | | | Vdc | | | 250 V | 600 V | | Cat. No. [11] |
| | 208 (200) | 240 (230) | 480 (460) | 600 (575) | 250 | 600 | | | | | |
| 30 A | 7.5 | 7.5 | 15 | 20 | 5 | 15 | None | — | — | BTCN30 | |
| | | | | | | | H, J, K, R | 30 | — | BTCF30 | |
| | | | | | | | | 60 | 30 | BTCF33 | |
| | | | | | | | J [12] | 60 | 30 | BTCF32 | |
| 60 A | 15 | 15 | 30 | 50 | 10 | 30 | None | — | — | BTDN60 | |
| | | | | | | | H, J, K, R | 60 | 30 | BTDF60 | |
| | | | | | | | | — | 60 | BTDF63 | |
| | | | | | | | J [12] | — | 60 | BTDF62 | |
| 100 A | 25 | 30 | 60 | 75 | 20 | 50 | None | — | — | BTEN10 | |
| | | | | | | | H, J, K, R | 100 | 100 | BTEF10 | |
| | | | | | | | | 100 | 100 | BTEF11 | |
| | | | | | | | J [12] | — | — | TFB1 | |
| 200 A | 40 | 60 | 125 | 150 | 40 | 50 | None | — | — | TFB2 | |
| | | | | | | | H, J, K, R | 200 | 200 | TFB3 | |
| | | | | | | | J [12] | — | 400 | — | |

[1] See Table 8.48 Cable Operators for 9422 Disconnect Switches, page 8-18 for ordering information for the cable operator.

[2] Variable depth only — no cable operator.

[3] For ordering use the suffix 9422, e.g., order TCN30 using catalog number 9422TCN30.

[4] 9422 R2 will extend maximum mounting depth 7 inches, see Table 8.53 Dimensions (in. / mm) for 200 A Type TF Disconnect Switches, page 8-20 for information.

[5] Accommodates Class J fuses only.

[6] Switches are fixed-depth or adjustable depending on handle selection.

[7] Commercially available enclosures may not accept 9422TG1 and 2 operating mechanisms. Contact enclosure manufacturer for availability of enclosures for use with these switches.

[8] Right hand flange mounting only and requires a special enclosure.

[9] Variable in increments of 0.63 inches.

[10] Right hand flange mounting only and requires a special enclosure.

[11] For ordering use the suffix 9422, e.g., order BTCN30 using catalog number 9422BTCN30.

[12] Space saving design—Type J fuses mounted on the non-fused bracket.