

## Introduction – Circuit Protection

Weidmüller's DIN-rail mounted circuit breakers are available for use in applications where circuit protection must be able to distinguish between circuit overloads and short circuits. Each circuit breaker has the ability to be reset without the need to change components. All circuit breakers are available with an assortment of jumpers and marking tags.

Circuit breakers in the 9926 Series are cULus listed according to UL489 and CSA 22.2 No. 5.02, CE, VDE. The hydraulic magnetic trip mechanism offers 10,000A of interrupting capacity in 120V and 240V, 50/60Hz applications.



**9926 Series**

The CB2200 Series feature integrated alarm contacts within a narrow profile, thereby allowing increased enclosure capacity. All of these circuit breakers demonstrate consistent reliability through 100% calibration and testing, and feature a touch safe design to prevent injury from accidental contact with live components.



**CB2200 Series**

The CB4200 Series of thermal magnetic circuit breakers feature a push-button style of trip reset. This reset provides a visual indication of status which allows for rapid troubleshooting.



**CB4200 Series**

The CB9100 Series of thermal magnetic circuit breakers provide a rugged and industry-standard form factor (18 mm/pole). For supplemental circuit protection.



**CB9100 Series**

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## Weldmüller 33

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## 9926 Series Supplemental Circuit Breakers

### Circuit Breakers Hydraulic Magnetic Type

- AC Voltages 277/480V
- Trip curve 2 for general purpose applications
- UL 1077 recognized
- VDE approved and CE marked
- Just 13 mm wide
- Mounts to 35 mm DIN-rail
- Factory fitted auxiliary or trip alarm
- Single, double and triple pole versions

### 9926 Series Single Pole



### 9926 Series Double Pole



### 9926 Series Triple Pole



#### Ordering Data

#### Type: Single Pole (up to 277 VAC)

| Current Rating (amps) | Part No.   | Description    |
|-----------------------|------------|----------------|
| 1                     | 9926251501 | QZ-1-13-D-2-01 |
| 2                     | 9926251502 | QZ-1-13-D-2-02 |
| 3                     | 9926251503 | QZ-1-13-D-2-03 |
| 4                     | 9926251504 | QZ-1-13-D-2-04 |
| 5                     | 9926251505 | QZ-1-13-D-2-05 |
| 6                     | 9926251506 | QZ-1-13-D-2-06 |
| 8                     | 9926251508 | QZ-1-13-D-2-08 |
| 10                    | 9926251510 | QZ-1-13-D-2-10 |
| 15                    | 9926251515 | QZ-1-13-D-2-15 |
| 20                    | 9926251520 | QZ-1-13-D-2-20 |
| 25                    | 9926251525 | QZ-1-13-D-2-25 |
| 35                    | 9926251535 | QZ-1-13-D-2-35 |
| 40                    | 9926251540 | QZ-1-13-D-2-40 |
| 50                    | 9926251550 | QZ-1-13-D-2-50 |
| 60                    | 9926251560 | QZ-1-13-D-2-60 |

#### Type: Double Pole (up to 480 VAC)

| Current Rating (amps) | Part No.   | Description    |
|-----------------------|------------|----------------|
| 1                     | 9926252501 | QZ-2-13-D-2-01 |
| 2                     | 9926252502 | QZ-2-13-D-2-02 |
| 4                     | 9926252504 | QZ-2-13-D-2-04 |
| 5                     | 9926252505 | QZ-2-13-D-2-05 |
| 6                     | 9926252506 | QZ-2-13-D-2-06 |
| 10                    | 9926252510 | QZ-2-13-D-2-10 |
| 15                    | 9926252515 | QZ-2-13-D-2-15 |
| 20                    | 9926252520 | QZ-2-13-D-2-20 |
| 25                    | 9926252525 | QZ-2-13-D-2-25 |
| 30                    | 9926252530 | QZ-2-13-D-2-30 |
| 35                    | 9926252535 | QZ-2-13-D-2-35 |
| 40                    | 9926252540 | QZ-2-13-D-2-40 |
| 50                    | 9926252550 | QZ-2-13-D-2-50 |
| 60                    | 9926252560 | QZ-2-13-D-2-60 |

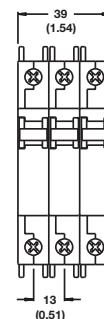
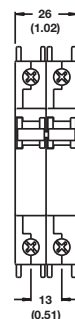
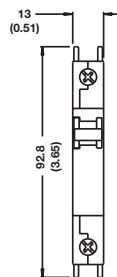
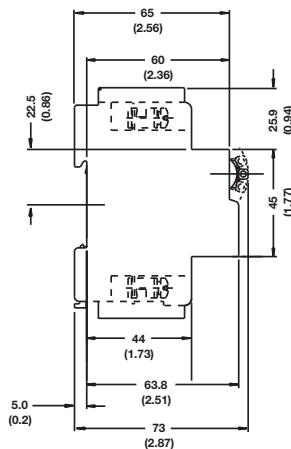
#### Type: Triple Pole (up to 480 VAC)

| Current Rating (amps) | Part No.   | Description    |
|-----------------------|------------|----------------|
| 10                    | 9926253510 | QZ-3-13-D-2-10 |
| 15                    | 9926253515 | QZ-3-13-D-2-15 |
| 20                    | 9926253520 | QZ-3-13-D-2-20 |
| 25                    | 9926253525 | QZ-3-13-D-2-25 |
| 30                    | 9926253530 | QZ-3-13-D-2-30 |
| 40                    | 9926253540 | QZ-3-13-D-2-40 |
| 50                    | 9926253550 | QZ-3-13-D-2-50 |
| 60                    | 9926253560 | QZ-3-13-D-2-60 |

### Accessories

| Type                              | Part No. |
|-----------------------------------|----------|
| Bus bar (1 pole, insulated 1m)    | 67101904 |
| Bus bar (2 pole, insulated 1m)    | 67101972 |
| Bus bar (3 pole, insulated 1m)    | 67101971 |
| Bus bar end cap, 1 pole           | 67101973 |
| Bus bar end cap, 2 pole or 3 pole | 67101974 |
| Power lug, straight               | 67101960 |
| Power lug, 90°                    | 67101961 |
| Lock-out handle                   | 67101913 |

#### 9926 Series Supplemental – dimensions in mm (in.)



#### Technical Data

|                       |                                              |
|-----------------------|----------------------------------------------|
| Voltage               | 277/480 VAC @ 50/60 Hz                       |
| Current               |                                              |
| minimum               | 0.5 A                                        |
| maximum               | 60 A                                         |
| Interrupting capacity | 5 kA @ 277/480 V, 5 kA @ 120 V, 5 kA @ 240 V |
| Dielectric strength   | 1500 V, 50/60 Hz                             |
| Insulation resistance | 100 MΩ                                       |
| Operating life        | 10000 mechanical operations                  |
| Operating temperature | -40...+65°C                                  |
| Wire size*            |                                              |
| 1-15A:                | 14 AWG min., 10 AWG max.                     |
| 20-25A:               | 10 AWG min.                                  |
| Torque                | 20 in.-lb                                    |

#### Approval

†UL 1077 Recognized, VDE (EN 60947-2) Approved, CSA C22.2 No. 235, CE Marked

\*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG 8/17 marking tags.

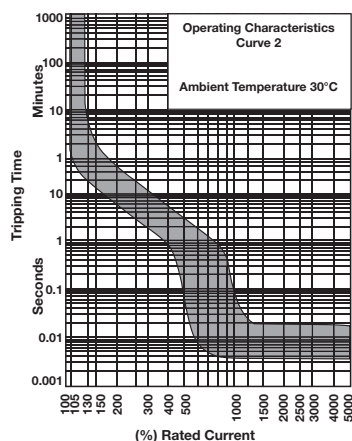
The part number for adhesive SchS2 is **1720600000**.

†cURus recognized to UL1077 and C22.2 No. 235

#### 9926 Series—Supplemental Trip Curve

### Trip Curves—Hydraulic Magnetic Type Typical time/current characteristics at 30°C

Additional trip curves and amp ratings are available upon request.



# 9926 Series Supplemental Circuit Breakers with Contacts

## Circuit Breakers Auxiliary switch, Trip alarm, Combination of both

- AC Voltages 277/480V
- Trip curve 2 for general purpose applications
- UL 1077 recognized
- VDE approved and CE marked
- Just 13 mm wide
- Mounts to 35 mm DIN-rail
- Factory fitted auxiliary or trip alarm
- Single, double and triple pole versions

### Technical Data

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Voltage               | 277/480 VAC @ 50/60 Hz                          |
| Current               |                                                 |
| minimum               | 0.5 A                                           |
| maximum               | 60 A                                            |
| Interrupting capacity | 5 kA @ 277/480 V,<br>5 kA @ 120 V, 5 kA @ 240 V |
| Dielectric strength   | 1500 V, 50/60 Hz                                |
| Insulation resistance | 100 MΩ                                          |
| Operating life        | 10000<br>mechanical operations                  |
| Operating temperature | -40...+65°C                                     |
| Wire size*            |                                                 |
| 1-15A:                | 14 AWG min., 10 AWG max.                        |
| 20-25A:               | 10 AWG min.                                     |
| Torque                | 20 in.-lb.                                      |

### Approval

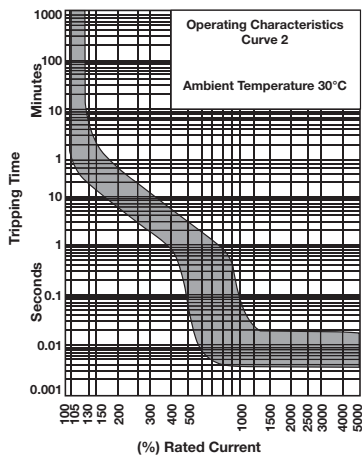
†UL 1077 Recognized, VDE (EN 60947-2)  
Approved, CSA C22.2 No. 235, CE Marked

\*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG B/17 marking tags. The part number for adhesive SchS2 is 1720600000.

### 9926 Series—Supplemental Trip Curve

## Trip Curves—Hydraulic Magnetic Type Typical time/current characteristics at 30°C



## 9926 Series Single Pole w/ Auxiliary Contact



### Type: Single Pole Aux (up to 277 VAC)

| Current Ratings (amps) | Part No.   | Description      |
|------------------------|------------|------------------|
| 1                      | 9926261501 | QZ-A-1-13-D-2-01 |
| 2                      | 9926261502 | QZ-A-1-13-D-2-02 |
| 5                      | 9926261505 | QZ-A-1-13-D-2-05 |
| 10                     | 9926261510 | QZ-A-1-13-D-2-10 |
| 15                     | 9926261515 | QZ-A-1-13-D-2-15 |
| 20                     | 9926261520 | QZ-A-1-13-D-2-20 |
| 25                     | 9926261525 | QZ-A-1-13-D-2-25 |

## 9926 Series Double Pole w/ Auxiliary Contact



### Type: Double Pole Aux (up to 480 VAC)

| Current Ratings (amps) | Part No.   | Description      |
|------------------------|------------|------------------|
| 1                      | 9926262501 | QZ-A-2-13-D-2-01 |
| 2                      | 9926262502 | QZ-A-2-13-D-2-02 |
| 5                      | 9926262505 | QZ-A-2-13-D-2-05 |
| 10                     | 9926262510 | QZ-A-2-13-D-2-10 |
| 15                     | 9926262515 | QZ-A-2-13-D-2-15 |
| 20                     | 9926262520 | QZ-A-2-13-D-2-20 |
| 25                     | 9926262525 | QZ-A-2-13-D-2-25 |

## 9926 Series Triple Pole w/ Auxiliary Contact



### Type: Triple Pole Aux (up to 480 VAC)

| Current Ratings (amps) | Part No.   | Description      |
|------------------------|------------|------------------|
| 1                      | 9926263501 | QZ-A-3-13-D-2-01 |
| 2                      | 9926263502 | QZ-A-3-13-D-2-02 |
| 5                      | 9926263505 | QZ-A-3-13-D-2-05 |
| 10                     | 9926263510 | QZ-A-3-13-D-2-10 |
| 15                     | 9926263515 | QZ-A-3-13-D-2-15 |
| 20                     | 9926263520 | QZ-A-3-13-D-2-20 |
| 25                     | 9926263525 | QZ-A-3-13-D-2-25 |

## 9926 Series Single Pole Trip (Alarm Contact)



### Type: Single Pole Trip (up to 277 VAC)

| Current Ratings (amps) | Part No.   | Description      |
|------------------------|------------|------------------|
| 1                      | 9926271501 | QZ-T-1-13-D-2-01 |
| 2                      | 9926271502 | QZ-T-1-13-D-2-02 |
| 5                      | 9926271505 | QZ-T-1-13-D-2-05 |
| 10                     | 9926271510 | QZ-T-1-13-D-2-10 |
| 15                     | 9926271515 | QZ-T-1-13-D-2-15 |
| 20                     | 9926271520 | QZ-T-1-13-D-2-20 |
| 25                     | 9926271525 | QZ-T-1-13-D-2-25 |

## 9926 Series Double Pole Trip (Alarm Contact)



### Type: Double Pole Trip (up to 480 VAC)

| Current Ratings (amps) | Part No.   | Description      |
|------------------------|------------|------------------|
| 1                      | 9926272501 | QZ-T-2-13-D-2-01 |
| 2                      | 9926272502 | QZ-T-2-13-D-2-02 |
| 5                      | 9926272505 | QZ-T-2-13-D-2-05 |
| 10                     | 9926272510 | QZ-T-2-13-D-2-10 |
| 15                     | 9926272515 | QZ-T-2-13-D-2-15 |
| 20                     | 9926272520 | QZ-T-2-13-D-2-20 |
| 25                     | 9926272525 | QZ-T-2-13-D-2-25 |

## 9926 Series Triple Pole Trip (Alarm Contact)



### Type: Triple Pole Trip (up to 480 VAC)

| Current Ratings (amps) | Part No.   | Description      |
|------------------------|------------|------------------|
| 1                      | 9926273501 | QZ-T-3-13-D-2-01 |
| 2                      | 9926273502 | QZ-T-3-13-D-2-02 |
| 5                      | 9926273505 | QZ-T-3-13-D-2-05 |
| 10                     | 9926273510 | QZ-T-3-13-D-2-10 |
| 15                     | 9926273515 | QZ-T-3-13-D-2-15 |
| 20                     | 9926273520 | QZ-T-3-13-D-2-20 |
| 25                     | 9926273525 | QZ-T-3-13-D-2-25 |

## 9926 Series Single Pole Combination (Auxiliary & Alarm Contact)



### Type: Single Pole Combo (up to 277 VAC)

| Current Ratings (amps) | Part No.   | Description       |
|------------------------|------------|-------------------|
| 1                      | 9926281501 | QZ-AT-1-13-D-2-01 |
| 2                      | 9926281502 | QZ-AT-1-13-D-2-02 |
| 5                      | 9926281505 | QZ-AT-1-13-D-2-05 |
| 10                     | 9926281510 | QZ-AT-1-13-D-2-10 |
| 15                     | 9926281515 | QZ-AT-1-13-D-2-15 |
| 20                     | 9926281520 | QZ-AT-1-13-D-2-20 |
| 25                     | 9926281525 | QZ-AT-1-13-D-2-25 |

## 9926 Series Double Pole Combination (Auxiliary & Alarm Contact)



### Type: Double Pole Combo (up to 480 VAC)

| Current Ratings (amps) | Part No.   | Description       |
|------------------------|------------|-------------------|
| 1                      | 9926282501 | QZ-AT-2-13-D-2-01 |
| 2                      | 9926282502 | QZ-AT-2-13-D-2-02 |
| 5                      | 9926282505 | QZ-AT-2-13-D-2-05 |
| 10                     | 9926282510 | QZ-AT-2-13-D-2-10 |
| 15                     | 9926282515 | QZ-AT-2-13-D-2-15 |
| 20                     | 9926282520 | QZ-AT-2-13-D-2-20 |
| 25                     | 9926282525 | QZ-AT-2-13-D-2-25 |

## 9926 Series Triple Pole Combination (Auxiliary & Alarm Contact)



### Type: Triple Pole Combo (up to 480 VAC)

| Current Ratings (amps) | Part No.   | Description       |
|------------------------|------------|-------------------|
| 1                      | 9926283501 | QZ-AT-3-13-D-2-01 |
| 2                      | 9926283502 | QZ-AT-3-13-D-2-02 |
| 5                      | 9926283505 | QZ-AT-3-13-D-2-05 |
| 10                     | 9926283510 | QZ-AT-3-13-D-2-10 |
| 15                     | 9926283515 | QZ-AT-3-13-D-2-15 |
| 20                     | 9926283520 | QZ-AT-3-13-D-2-20 |
| 25                     | 9926283525 | QZ-AT-3-13-D-2-25 |

†cURus recognized to UL1077 and C22.2 No. 235

## 9926 Series Supplemental Circuit Breakers–GFCI

### Ground Fault Current Interrupt

- CE approved
- UL1077 and UL1053 recognized
- Small frame size (26mm wide)
- Single pole plus switched neutral ground leakage protection
- Trip point is unaffected by ambient temperature
- Current ratings up to 50A
- Trip indication (mid trip handle position)
- Trip curve 2 for general purpose applications

### 9926 Series GFCI



#### Ordering Data

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|  |
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|  |
|  |
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|  |
|  |

#### Technical Data

|                             |                     |
|-----------------------------|---------------------|
| Standard Ampere Ratings (A) | 5 to 50A            |
| Sensitivity (mA)            | 30 (CE) / 22 (UL)   |
| Number of Poles             | 1 + N               |
| Equipment Type              | Ground Leakage/GFCI |
| Rated Voltage (V)           | 230 (CE) / 240 (UL) |
| Rated Interrupting/         | 5 kA                |
| Withstand Capacity (kA)     | –                   |
| Weight (kg)                 | 0.26                |
| Trip Curve (standard)       | 2                   |
| Operating Temperature       | –40 to +65°C        |

#### Approval

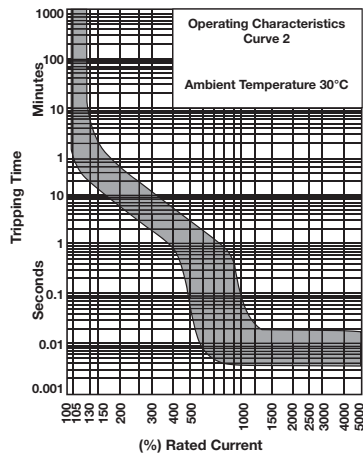
UL 1077 and UL 1053, CE

#### Type: Single Pole GFCI

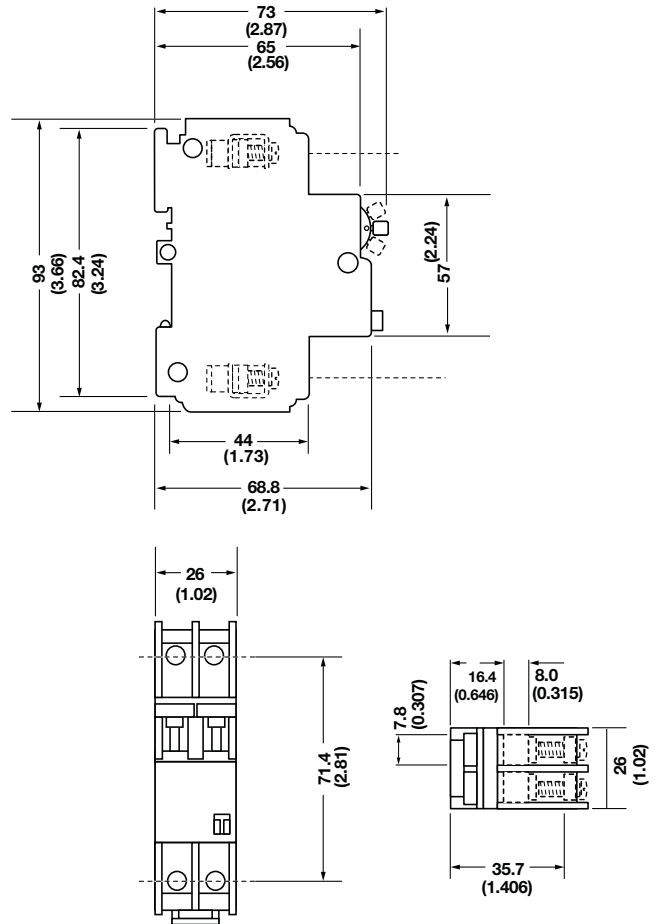
| Current Ratings (amps) | Part No.   | Description          |
|------------------------|------------|----------------------|
| 5                      | 9926291105 | QF17A2505 - CB W/GFI |
| 10                     | 9926291110 | QF17A2510 - CB W/GFI |
| 15                     | 9926291115 | QF17A2515 - CB W/GFI |
| 20                     | 9926291120 | QF17A2520 - CB W/GFI |
| 25                     | 9926291125 | QF17A2525 - CB W/GFI |
| 30                     | 9926291130 | QF17A2530 - CB W/GFI |
| 50                     | 9926291150 | QF17A2550 - CB W/GFI |

#### 9926 Series–AC version Trip Curve

#### Trip Curves—Hydraulic Magnetic Type Typical time/current characteristics at 30°C



#### 9926 Series GFCI – dimensions in mm (in.)

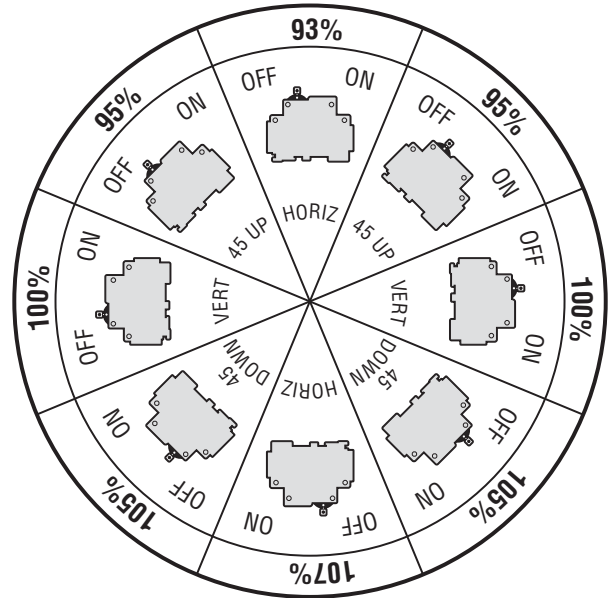


# 9926 Series Mounting Options and Accessories

## Mounting Options

If the product is not vertically mounted in the normal DIN-rail mounting orientation, a rating factor must be applied. Figure 1 shows a diagram of the rating factor to apply. The published curves for these circuit breaker products are produced with the circuit breaker in the vertical mounting position. The rating factor only applies to the must hold and must trip points of the curve as the other parts (instantaneous trip point) stay largely unaffected.

It is important to note that in environments that are exposed to a high degree of vibration, the cables that connect to the circuit breaker must be securely held in place, as the breaker is not designed to carry the weight of the cables. A maximum of 35N can be applied to the terminal area, in a direction perpendicular to the mounting axis.

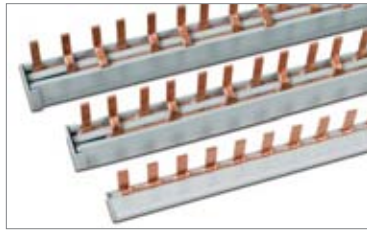


## Accessories

### Technical Data

|                        |           |
|------------------------|-----------|
| Current Rating         | 80A max.  |
| Voltage                | 500V max. |
| Short Circuit Strength | 25kA      |

| Type                           | Part No. |
|--------------------------------|----------|
| Bus bar (1 pole, insulated 1m) | 67101904 |
| Bus bar (2 pole, insulated 1m) | 67101972 |
| Bus bar (3 pole, insulated 1m) | 67101971 |



| Type                              | Part No. |
|-----------------------------------|----------|
| Bus bar end cap, 1 pole           | 67101973 |
| Bus bar end cap, 2 pole or 3 pole | 67101974 |



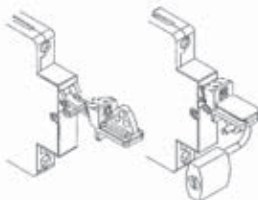
### Technical Data

|                |                         |
|----------------|-------------------------|
| Current Rating | 85A max.                |
| Wire Size      | 10 AWG min., 4 AWG max. |
| Dimensions     | A: 6 mm B: 32 mm        |

| Type                | Part No. |
|---------------------|----------|
| Power lug, straight | 67101960 |
| Power lug, 90°      | 67101961 |



| Type            | Part No. |
|-----------------|----------|
| Lock-out handle | 67101913 |



### Part Number Table - Example

To order 9926 Series Single Pole Circuit Breaker

Part No. 9926251100

- Current Rating of 1.0 amp
- Internal Resistance per Pole of 1.1 ohms
- Trip Curve – M1, Medium (Standard)

9 9 2 6 2 5 1 0 0 0

#### Amperage

- \*00" - 0.5A
- \*01" - 1A
- \*02" - 2A
- /
- \*60" - 60A

#### Trip Curves (Types 5-9)

- \*0" - Branch AC KM (Standard)
- \*1" - Branch AC OP (Instantaneous)
- \*2" - Branch AC 1 (Fast)
- \*3" - Supplemental 9 (Slow)
- \*4" - Branch 80VDC 1 (Fast)
- \*5" - Supplemental 2 (Standard)
- \*6" - Branch 125VDC OP (Instantaneous)
- \*7" - Branch 80VDC OP (Instantaneous)
- \*8" - Branch 125VDC U2 (Standard)
- \*9" - Branch 80VDC U2 (Standard)

#### Poles

- 1 Pole
- 2 Pole
- 3 Pole

#### Type

- \*5" - Base Breaker
- \*6" - With Auxiliary Contact
- \*7" - With Trip Alarm Contact
- \*8" - Combo Aux/Trip Contact
- \*9" - GFCI

9 9 2 6 2 4 1 0 0 0

#### Amperage

- \*00" - 0.5A
- \*01" - 1A
- \*02" - 2A
- /
- \*60" - 60A

#### Trip Curves (Type 4)

- \*0" - Supplemental 1 (Fast)

#### Poles

- 1 Pole
- 2 Pole
- 3 Pole

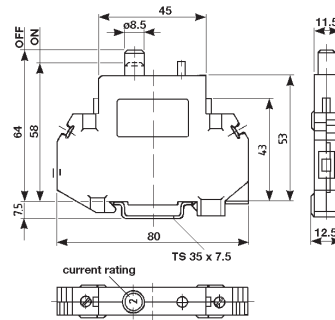
#### Type

- \*4" - Base Breaker

Weldmüller 

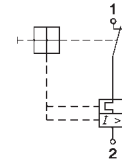
# CB4200 Series Supplemental Circuit Breakers

## CB4200 Series Single Pole

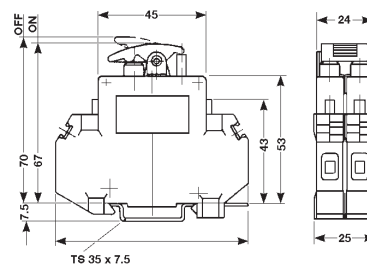


Dimensions in mm

## Internal Wiring Diagram

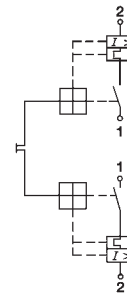


## CB4200 Series Double Pole



Dimensions in mm

## Internal Wiring Diagram



### Technical Data

Rated voltage & current†

|     |
|-----|
| UL  |
| CSA |
| VDE |

Creepage resistance

Dielectric strength

Insulation resistance

Interrupting capacity

(VDE 0660, Part 101, P-2)

Interrupting capacity; 4201

(UL 1077/EN 60934 PC1)

Typical life at 2 x rated current

Shock

Torque

Vibration

Temperature range

Corrosion

Humidity

Weight

Wire size (UL)

| Voltage Ratings             |                  | Current Ratings  |  |
|-----------------------------|------------------|------------------|--|
| AC 250 V, DC 65 V, 50/60 Hz |                  | 0.05...16 A      |  |
| AC 250 V, DC 65 V, 50/60 Hz |                  | 0.05...16 A      |  |
| AC 250 V, DC 65 V, 50/60 Hz |                  | 0.05...16 A      |  |
| PTI 600 to IEC 112          |                  |                  |  |
| 4,000 VAC; IEC 664 & 664 A  |                  |                  |  |
| > 100 MΩ (DC 500 V)         |                  |                  |  |
| 4201-10                     | Maximum capacity |                  |  |
| 0.05...0.8 A                | Self-limiting    |                  |  |
| 1...2 A                     | 200 A            |                  |  |
| 2.5...16 A                  | 400 A            |                  |  |
| Rated current               | Rated voltage    | Maximum capacity |  |
| 0.05...2.0 A                | AC 250 V         | 200 A            |  |
| 2.0...16 A                  | AC 250 V         | 200 A            |  |
| 20 A                        | AC 125 V         | 400 A            |  |

|                                                                   |
|-------------------------------------------------------------------|
| 5,000 operations                                                  |
| 25 g (11 ms) to IEC 68-2-27, Test Ea                              |
| 1.2 Nm                                                            |
| 5 g (57 to 500 Hz / ±0.38 mm, 10 to 57 Hz) to IEC 68-2-6, Test Fc |
| -30°C...+55°C (-22°F...+131°F)                                    |
| 96 hours at 5% salt spray, to IEC 68-2-11, Test Ka                |
| 240 hours at 95% RH, to IEC 68-2-3, Test Ca                       |
| 60 g per pole                                                     |
| #20...8 AWG solid/0.5...6 mm²                                     |

### Accessories

Jumpers

|                 |
|-----------------|
| Daisy Chain 50* |
| Straight CQB**  |
| insulated       |
| Angled CQB**    |
| insulated       |

Adapter foot (for TS 32 Rail)

### Marking Tags

Note: Part numbers are shown for a single card of pre-printed tags numbered 1-50.

Special print only  
Consecutive horizontal  
Consecutive vertical

| Type        | Part No.      |
|-------------|---------------|
| BDC 50      | 9970290000    |
| CQB 2       | 9970560000    |
| CQB 3       | 9970570000    |
| CQB 4       | 9970580000    |
| CQB 10      | 9970590000    |
| CQB 2       | 9970600000    |
| CQB 3       | 9970610000    |
| CQB 4       | 9970620000    |
| CQB 10      | 9970630000    |
| MCBAF/TS 32 | 9102100000    |
| WS 8/5 MC   | 1640750000*** |
| DEK 5/5     | 0473460001    |
| DEK 5/5     | 0473560001    |

†Note: Resistive and inductive loads (0.05 - 16 A)

\*BDC will accommodate 20 A per pin, 20 A total

\*\*CQB will accommodate 18 A per pin, 18 A total; dedicated to 4201 Series

\*\*\*Please specify horizontal or vertical print when ordering.

Standard quantity = 144 tags per card.

## Circuit Breakers

### Thermal Magnetic Type

- ## CB2200 Series Single Pole

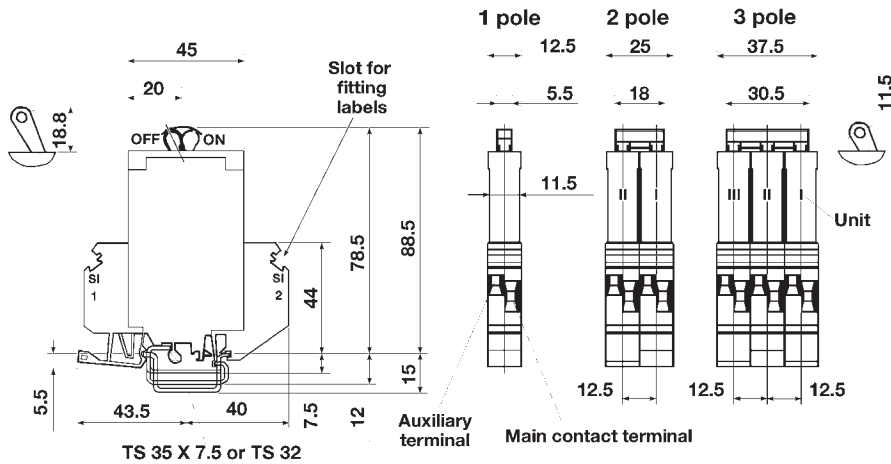


| Type: Triple Pole         |                     |
|---------------------------|---------------------|
| Current Ratings<br>(amps) | N/O-N/C<br>Part No. |
| 0.1                       | 9913010003          |
| 0.2                       | 9913020003          |
| 0.3                       | 9913030003          |
| 0.4                       | 9913040003          |
| 0.5                       | 9913050003          |
| 0.6                       | 9913060003          |
| 0.8                       | 9913080003          |
| 1.0                       | 9913100003          |
| 1.5                       | 9913150003          |
| 2.0                       | 9913200003          |
| 2.5                       | 9913250003          |
| 3.0                       | 9913300003          |
| 4.0                       | 9913400003          |
| 5.0                       | 9913500003          |
| 6.0                       | 9913600003          |
| 8.0                       | 9913800003          |
| 10                        | 9923100003          |
| 12                        | 9923120003          |
| 15                        | 9923150003          |
| 16                        | 9923160003          |
| 18                        | 9923180003          |
| 20                        | 9923200003          |

| Type: Triple Pole                     |            |
|---------------------------------------|------------|
| contact is open (in the OFF position) |            |
| Current Ratings<br>(amps)             | Part No.   |
| 0.1                                   | 9913010000 |
| 0.2                                   | 9913020000 |
| 0.3                                   | 9913030000 |
| 0.4                                   | 9913040000 |
| 0.5                                   | 9913050000 |
| 0.6                                   | 9913060000 |
| 0.8                                   | 9913080000 |
| 1.0                                   | 9913100000 |
| 1.5                                   | 9913150000 |
| 2.0                                   | 9913200000 |
| 2.5                                   | 9913250000 |
| 3.0                                   | 9913300000 |
| 4.0                                   | 9913400000 |
| 5.0                                   | 9913500000 |
| 6.0                                   | 9913600000 |
| 8.0                                   | 9913800000 |
| 10                                    | 9923100000 |
| 12                                    | 9923120000 |
| 15                                    | 9923150000 |
| 16                                    | 9923160000 |
| 18                                    | 9923180000 |
| 20                                    | 9923200000 |
| 25                                    | 9923250000 |
| 32                                    | 9923320000 |

# CB2200 Series Supplemental Circuit Breakers

## CB2200 Series



Dimensions in mm

| Technical Data                    |                |
|-----------------------------------|----------------|
| Rated voltage & current†          | UL             |
|                                   | CSA            |
|                                   | VDE            |
| Auxiliary contacts                |                |
| Creepage resistance               |                |
| Dielectric strength               |                |
| Insulation resistance             |                |
| Interrupting capacity             |                |
| (VDE 0660, Part 101, P-2)         |                |
| Interrupting capacity             |                |
| (UL 1077/EN 60934 PC1)            |                |
| Typical life at 2 x rated current |                |
| Shock                             |                |
| Torque                            | Nm (lb. in.)   |
| Vibration                         |                |
| Temperature range                 |                |
| Corrosion                         |                |
| Humidity                          |                |
| Weight                            |                |
| Wire size (UL)                    |                |
| Accessories                       |                |
| Jumpers                           | Daisy Chain 50 |
| Busbars                           |                |

| Marking Tags |                        |
|--------------|------------------------|
| 1 2 3 4 5 6  | Special print only     |
|              | Consecutive horizontal |
|              | Consecutive vertical   |

†Note: Resistive and inductive loads (0.05 - 16 A)

\*Please specify horizontal or vertical print when ordering.

| Voltage Ratings                  |               | Current Ratings                 |
|----------------------------------|---------------|---------------------------------|
| 277 / 480 VAC (50/60 Hz); 65 VDC |               | 0.1...32 A                      |
| 277 / 480 VAC (50/60 Hz); 65 VDC |               | 0.1...32 A                      |
| 250 / 415 VAC / 65 VDC           |               | 0.1...32 A                      |
| 250 VAC / 65 VDC, 1 A            |               |                                 |
| PTI 600 to IEC 112               |               |                                 |
| 3,000 VAC; IEC 664 & 664 A       |               |                                 |
| > 100 MΩ (DC 500 V)              |               |                                 |
| Rated current                    | Rated voltage | Rupture capacity (3 times)      |
| 0.05...0.8 A                     | 250 / 415 VAC | 400 A                           |
| 6...32 A                         | 250 / 415 VAC | 800 A                           |
| Rated current                    | Rated voltage | Max. rupture capacity (3 times) |
| 0.1...16 A                       | 277 / 480 VAC | 5000 A                          |
| 20...32 A                        | 277 / 480 VAC | 2000 A                          |
| 0.1...32 A                       | 65 VDC        | 2000 A                          |

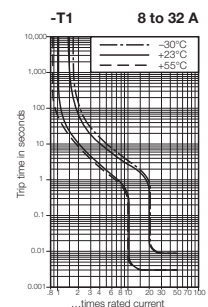
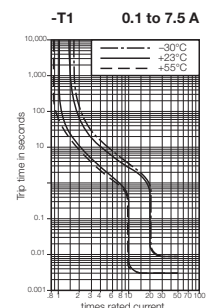
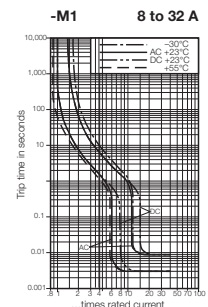
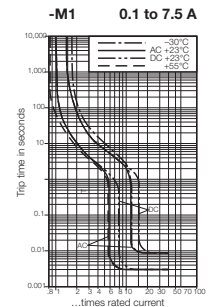
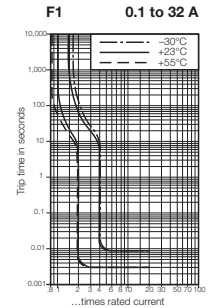
|                                                                   |
|-------------------------------------------------------------------|
| 5,000 operations                                                  |
| 25 g (11 ms) to IEC 68-2-27, Test Ea                              |
| 0.6 (5.3) Auxiliary contact: 0.5 (4.4)                            |
| 5 g (57 to 500 Hz / ±0.38 mm, 10 to 57 Hz) to IEC 68-2-6, Test Fc |
| -30...+60°C (-22°F...+140°F)                                      |
| 96 hours at 5% salt spray, to IEC 68-2-11, Test Ka                |
| 240 hours at 95% RH, to IEC 68-2-3, Test Ca                       |
| Approximately 60 g per pole                                       |
| max 6 mm²...8 AWG max 1.5 mm²...14 AWG (Aux. contact)             |

| Type                 | Part No.   |
|----------------------|------------|
| BDC 50, 20 A maximum | 9970290000 |
| 1 pole (CB2200)      | 9986510000 |
| 2 pole (CB2200)      | 9987360000 |

|         |             |
|---------|-------------|
| DEK 5/6 | 0490360000* |
| DEK 5/6 | 0468660001  |
| DEK 5/6 | 0468760001  |

## Trip Curves—Thermal Magnetic Type Typical time/current characteristics at 23°C

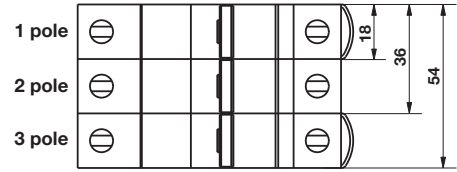
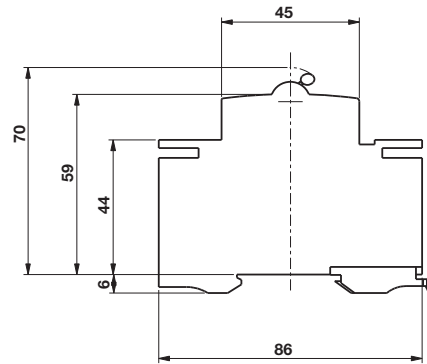
CB2200 Series



Weldmüller 

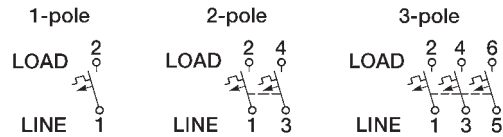
# CB9100 Series Supplemental Circuit Breakers

## CB9100 Series



Dimensions in mm

## Internal Wiring Diagram



### Technical Data

Rated voltage & current

UL 1077

CSA C 22.2 No. 235

VDE

Creepage resistance

Insulation resistance

Interrupting capacity

(UL 1077/EN 60934 PC1) 1 pole

Mechanical/Electrical endurance

Shock

Torque

Vibration

Temperature range - operating

Weight

Strip length

Auxiliary contact rating

Wire size - #22...12 AWG

Wire size

277 V (1 pole) 480 V (2 and 3 pole) 50 VDC (1 pole) 110 VDC (2 pole)

277 V (1 pole) 480 V (2 and 3 pole) 50 VDC (1 pole) 110 VDC (2 pole)

PTI 250 to IEC 112

>100 MΩ at 500 VDC

Current ratings

Interrupting Rupture capacity (3X)

Voltage

0.5...63 A

10,000 A (UL)

277 VAC/50 VDC

0.5...32 A

2,000 A (UL)

277 / 480 AC

0.5...63 A

6,000 A (UL)

50 VDC (1) pole

0.5...50 A

6,000 A (UL)

110 VDC (2) poles

20,000/10,000

20 g (10 ms)

2 Nm

3 g (10 to 55 Hz)

-25°C...+55°C (-13°F to 131°F)

1 pole (130 g); 2 pole (280 g); 3 pole (430 g)

12 mm

Voltage

Current

AC 220/240

5 A

AC 277

3 A

DC 24 V

4 A

DC 60 V

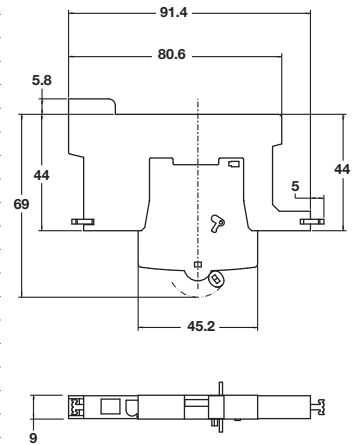
1 A

DC220 V

0.4 A

#18...2 AWG (line); #18...3 AWG (load)

## Auxiliary Contact Modules



### Accessories

Jumpers

Auxiliary contacts

SPDT

Security hardware

### Marking Tags

Adhesive label

| Type                                                   | Current Side/Middle | Part No.   |
|--------------------------------------------------------|---------------------|------------|
| 3 pole bus, 10 x 1010 mm, buses (19) 3 phase groupings | 80A/100A            | 9970330000 |
| 3 pole bus, 16 x 210 mm, buses (4) 3 phase groupings   | 120A/130A           | 9970340000 |
| 3 pole bus, 16 x 1010 mm, buses (19) 3 phase groupings | 120A/130A           | 9970350000 |
| 1 pole bus, 12 x 210 mm, buses 12 breakers             | 80A/100A            | 9970360000 |
| 1 pole bus, 12 x 210 mm (insulated), buses 12 breakers | 63A                 | 9991990000 |
| Bus bar clamp                                          | 130A                | 9970370000 |

Auxiliary contacts

9970300000

Lock out cover

9970380000

ETO 10/26, yellow (26 mm x 10 mm)

1686401687

## Internal Auxiliary Wiring Diagram

