

Introduction – Circuit Protection

Weidmuller'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

9926 Series Branch Rated Circuit Breakers–AC Version

Circuit Breakers Hydraulic Magnetic Type

- Single pole and double pole versions
- 120/240 VAC, 50/60 Hz
- Up to 25A
- Just 13 mm wide
- Mounts on 35mm DIN-rail
- cULus listed according to UL489 CSA C22.2 No. 5.02, CE, VDE

9926 Series Single Pole



9926 Series Double Pole



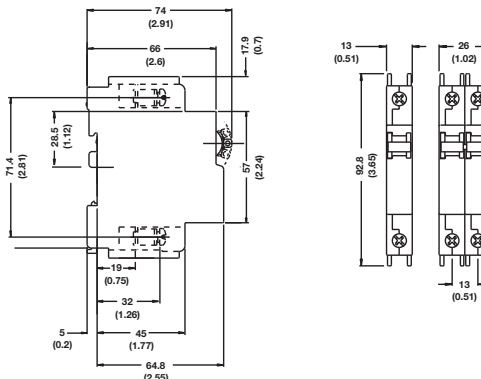
Ordering Data	

Type: Single Pole (up to 120 VAC)		
Current Ratings (amps)	Part No. TS 35	Description
0.5	9926251000	QL-1-13-DM-KM-0.5
1	9926251001	QL-1-13-DM-KM-01
2	9926251002	QL-1-13-DM-KM-02
3	9926251003	QL-1-13-DM-KM-03
4	9926251004	QL-1-13-DM-KM-04
5	9926251005	QL-1-13-DM-KM-05
6	9926251006	QL-1-13-DM-KM-06
7	9926251007	QL-1-13-DM-KM-07
8	9926251008	QL-1-13-DM-KM-08
10	9926251010	QL-1-13-DM-KM-10
13	9926251013	QL-1-13-DM-KM-13
15	9926251015	QL-1-13-DM-KM-15
16	9926251016	QL-1-13-DM-KM-16
20	9926251020	QL-1-13-DM-KM-20
25	9926251025	QL-1-13-DM-KM-25

Type: Double Pole (up to 240 VAC)		
Current Ratings (amps)	Part No. TS 35	Description
0.5	9926252000	QL-2-13-DM-KM-0.5
1	9926252001	QL-2-13-DM-KM-01
2	9926252002	QL-2-13-DM-KM-02
3	9926252003	QL-2-13-DM-KM-03
4	9926252004	QL-2-13-DM-KM-04
5	9926252005	QL-2-13-DM-KM-05
6	9926252006	QL-2-13-DM-KM-06
7	9926252007	QL-2-13-DM-KM-07
8	9926252008	QL-2-13-DM-KM-08
10	9926252010	QL-2-13-DM-KM-10
13	9926252013	QL-2-13-DM-KM-13
15	9926252015	QL-2-13-DM-KM-15
16	9926252016	QL-2-13-DM-KM-16
20	9926252020	QL-2-13-DM-KM-20
25	9926252025	QL-2-13-DM-KM-25

Technical Data	
Voltage	120/240 VAC, 50/60Hz
Current	
minimum	0.5A
maximum	25A
Interrupting capacity	10,000A
Dielectric strength	1500V, 50/60Hz
Insulation resistance	100MΩ
Operating life	10000 mechanical operations
Operating temperature	-40...+65°C
Wire size*	
0.5-15A:	14AWG min., 10AWG max.
20-25A:	10AWG min.
Torque	20 in.-lb

9926 Series AC Version - dimensions in mm (in.)



Approval
cULus listed according to UL489 CSA C22.2 No. 5.02, CE, VDE

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

*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 172060000.

Trip Curves—Hydraulic Magnetic Type

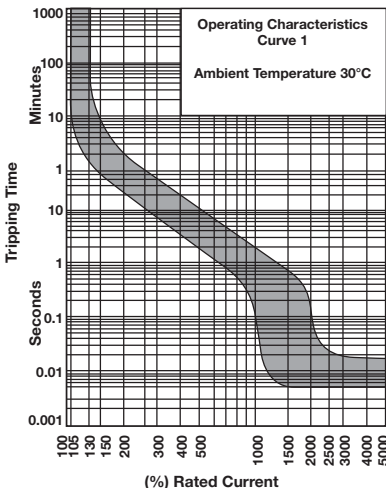
Typical time/current characteristics at 30°C

Sample trip characteristics - KM						
	125%	150%	200%	400%	800%	1000%
minimum (sec)	15	8	4	0.7	0.09	0.007
maximum (sec)	300	90	28	4	1.5	0.4

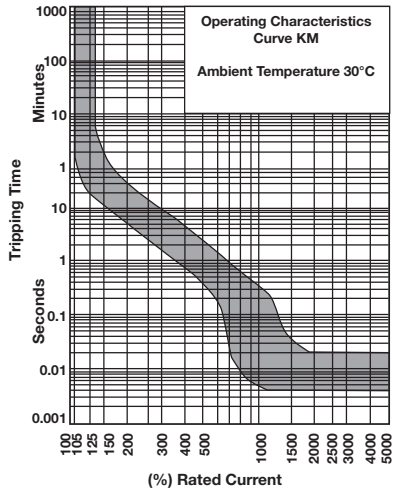
Although the 9926 series uses a magnetic only trip mechanism, CSA testing indicates a trip characteristic similar to thermal magnetic trip mechanisms. No de-rating is required at elevated temperatures.

Additional trip curves and amp ratings are available upon request.

9926 Series—AC version Trip Curve



9926 Series—AC version Trip Curve



Trip Curve 1 applies to the following part numbers where "XX" is the current rating:
Single Pole— 99262512XX Double Pole— 99262522XX

9926 Series Branch Rated Circuit Breakers-AC Version with Contacts

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

- AC voltages (120/240V)
- Single and double pole versions
- cULus listed according to UL489 and C22.2 No. 5.02, CE, VDE
- Factory fitted auxiliary or trip alarm
- Compact 6.5mm width
- Attached to right hand side of circuit breaker

9926 Series Single Pole w/ Auxiliary Contact†



9926 Series Single Pole Trip (Alarm Contact)



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



Technical Data	
Voltage	120/240 VAC, 50/60Hz
Current	
minimum	0.5A
maximum	25A
Interrupting capacity	10,000A
Dielectric strength	1500V, 50/60Hz
Insulation resistance	100MΩ
Operating life	10000 mechanical operations
Operating temperature	-40...+65°C
Wire size*	
0.5-15A:	14AWG min., 10AWG max.
20-25A:	10AWG min.
Torque	20 in.-lb

Approval
cULus listed according to UL489 and C22.2 No. 5.02, CE, VDE

†UL 489 listed
(5A, 250 VAC; 0.5A, 80 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)
IEC 60947-5-1 Approved
(5A, 250 VAC; 0.5A, 110 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)

*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**.

Type: Single Pole Aux (up to 120 VAC)			
Current Ratings (amps)	Part No.	Description	
1	9926261001	QL-A-1-13-DM-KM-1	
2	9926261002	QL-A-1-13-DM-KM-2	
5	9926261005	QL-A-1-13-DM-KM-5	
10	9926261010	QL-A-1-13-DM-KM-10	
15	9926261015	QL-A-1-13-DM-KM-15	
20	9926261020	QL-A-1-13-DM-KM-20	
25	9926261025	QL-A-1-13-DM-KM-25	

Type: Single Pole Trip (up to 120 VAC)			
Current Ratings (amps)	Part No.	Description	
1	9926271001	QL-T-1-13-DM-KM-1	
2	9926271002	QL-T-1-13-DM-KM-2	
5	9926271005	QL-T-1-13-DM-KM-5	
10	9926271010	QL-T-1-13-DM-KM-10	
15	9926271015	QL-T-1-13-DM-KM-15	
20	9926271020	QL-T-1-13-DM-KM-20	
25	9926271025	QL-T-1-13-DM-KM-25	

Type: Single Pole Combo (up to 120 VAC)			
Current Ratings (amps)	Part No.	Description	
1	9926281001	QL-AT-1-13-DM-KM-1	
2	9926281002	QL-AT-1-13-DM-KM-2	
5	9926281005	QL-AT-1-13-DM-KM-5	
10	9926281010	QL-AT-1-13-DM-KM-10	
15	9926281015	QL-AT-1-13-DM-KM-15	
20	9926281020	QL-AT-1-13-DM-KM-20	
25	9926281025	QL-AT-1-13-DM-KM-25	

9926 Series Double Pole w/ Auxiliary Contact†



9926 Series Double Pole Trip (Alarm Contact)



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



Type: Double Pole Aux (up to 240 VAC)			
Current Ratings (amps)	Part No.	Description	
1	9926262001	QL-A-2-13-DM-KM-1	
2	9926262002	QL-A-2-13-DM-KM-2	
5	9926262005	QL-A-2-13-DM-KM-5	
10	9926262010	QL-A-2-13-DM-KM-10	
15	9926262015	QL-A-2-13-DM-KM-15	
20	9926262020	QL-A-2-13-DM-KM-20	
25	9926262025	QL-A-2-13-DM-KM-25	

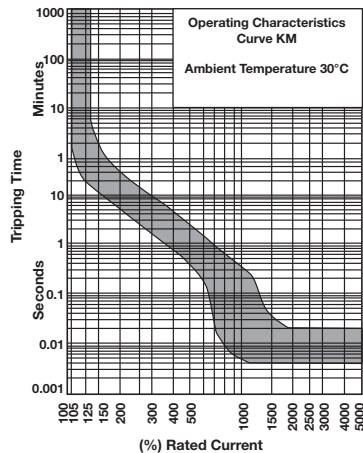
Type: Double Pole Trip (up to 240 VAC)			
Current Ratings (amps)	Part No.	Description	
1	9926272001	QL-T-2-13-DM-KM-1	
2	9926272002	QL-T-2-13-DM-KM-2	
5	9926272005	QL-T-2-13-DM-KM-5	
10	9926272010	QL-T-2-13-DM-KM-10	
15	9926272015	QL-T-2-13-DM-KM-15	
20	9926272020	QL-T-2-13-DM-KM-20	
25	9926272025	QL-T-2-13-DM-KM-25	

Type: Double Pole Combo (up to 240 VAC)			
Current Ratings (amps)	Part No.	Description	
1	9926282001	QL-AT-2-13-DM-KM-1	
2	9926282002	QL-AT-2-13-DM-KM-2	
5	9926282005	QL-AT-2-13-DM-KM-5	
10	9926282010	QL-AT-2-13-DM-KM-10	
15	9926282015	QL-AT-2-13-DM-KM-15	
20	9926282020	QL-AT-2-13-DM-KM-20	
25	9926282025	QL-AT-2-13-DM-KM-25	

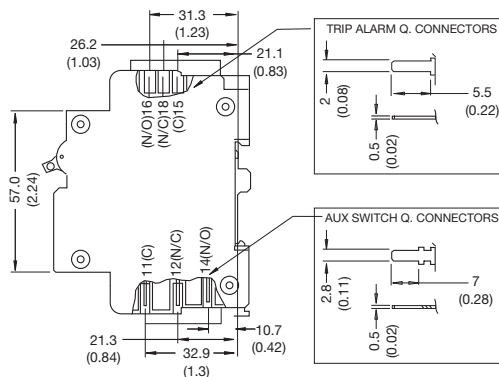
9926 Series-AC version Trip Curve

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

Additional trip curves and amp ratings are available upon request.



Dual Mount Dimensions in mm (in.)



9926 Series Branch Rated Circuit Breakers—DC Version

Circuit Breakers Hydraulic Magnetic Type

- Single pole versions only
- U2 trip curve for general purpose applications
- 80 and 125 VDC
- Up to 60A
- Just 13 mm wide
- Mounts on 35mm DIN-rail
- UL 489A listed
- VDE

9926 Series Single Pole (80 VDC)



9926 Series Single Pole (125 VDC)



Ordering Data

Ordering Data

Type: Single Pole (80 VDC)

Current Ratings (amps)	Part No.	Description
0.5	9926251900	QY-1-13-DM-U2-0.5
1	9926251901	QY-1-13-DM-U2-01
2	9926251902	QY-1-13-DM-U2-02
3	9926251903	QY-1-13-DM-U2-03
4	9926251904	QY-1-13-DM-U2-04
5	9926251905	QY-1-13-DM-U2-05
10	9926251910	QY-1-13-DM-U2-10
15	9926251915	QY-1-13-DM-U2-15
20	9926251920	QY-1-13-DM-U2-20
25	9926251925	QY-1-13-DM-U2-25
30	9926251930	QY-1-13-DM-U2-30
35	9926251935	QY-1-13-DM-U2-35
40	9926251940	QY-1-13-DM-U2-40
45	9926251945	QY-1-13-DM-U2-45
50	9926251950	QY-1-13-DM-U2-50
60	9926251960	QY-1-13-DM-U2-60

Type: Single Pole (125 VDC)

Current Ratings (amps)	Part No.	Description
1	9926251801	QY-1-13-DM-U2-01-B1
2	9926251802	QY-1-13-DM-U2-02-B1
3	9926251803	QY-1-13-DM-U2-03-B1
4	9926251804	QY-1-13-DM-U2-04-B1
5	9926251805	QY-1-13-DM-U2-05-B1
10	9926251810	QY-1-13-DM-U2-10-B1
15	9926251815	QY-1-13-DM-U2-15-B1
20	9926251820	QY-1-13-DM-U2-20-B1
25	9926251825	QY-1-13-DM-U2-25-B1
30	9926251830	QY-1-13-DM-U2-30-B1
35	9926251835	QY-1-13-DM-U2-35-B1
40	9926251840	QY-1-13-DM-U2-40-B1
45	9926251845	QY-1-13-DM-U2-45-B1
50	9926251850	QY-1-13-DM-U2-50-B1
60	9926251860	QY-1-13-DM-U2-60-B1

Accessories

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

Technical Data

Voltage	80,125 VDC
Current	
minimum	0.5 A
maximum	60 A
Interrupting capacity	10,000 A
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 489A Listed, CE, VDE

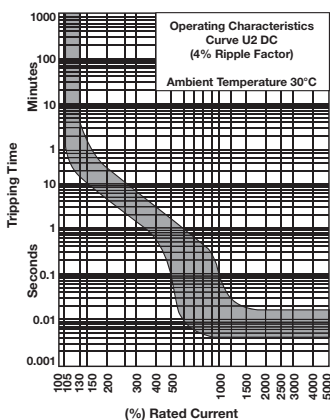
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9926 Series—DC version Trip Curve

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

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Dimensions in mm (in.)

