

Q-Series Miniature Circuit Breakers



| Product Type | | QL | QY | QZ | QDC |
|--------------------------------------|-----------------------------|---|---|--|---|
| Standard Ampere Ratings (A) | | | 0.1 – 63 (1 pole) 0.1 – 50 (2 poles) | 0.1 – 60 (UL 1077) 5 – 50 (IEC 60947-2) | 0.1 – 63 (1 pole) 0.1 – 50 (2 poles) |
| | | 0.1 – 25 | 20 – 100 (2p parallel) 110 – 150 (3p parallel) | | 20 – 100 (2p parallel) 110 – 150 (3p parallel) |
| Number of Poles | | 1, 2, 3, 1+N, 3+N | 1, 2 2, 3p parallel 2 poles in series | 1, 2, 3, 1+N, 3+N | 1, 2 2, 3p parallel 2 poles in series |
| Rated Voltage (V) | | 120V AC (1p) 120/240V AC(2p) 240V AC (1p) 240/415V AC 2, 4p) | 80V DC *125V DC (1, 2p & 2p parallel) *250V DC (2p in series) | 120V AC (1p) 240V AC (1p) 240/415V AC (2, 4p) 277V AC (1p) 277/480V AC (2, 3p) | 80V DC *125V DC (1, 2p & 2p parallel) *250V DC (2p in series) |
| Approvals & Interrupt. Capacity (kA) | VDE (EN 60947-2) CE | 6kA (240/415V AC) ✓ | 10kA ✓ | 3kA (240/415V AC) ✓ | 10kA ✓ |
| | cULus (UL489_CSA) UL489A | 10kA (120/240V AC) | | | |
| | cURus (UL1077_CSA) | | 10kA | 5kA (1p, 120V ac) 5kA (277/480V ac) | |
| | | | | | |
| Mounting Options | Dual Mounting (DIN & Mini) | ✓ | ✓ | ✓ | ✓ |
| | DIN Rail | ✓ | ✓ | ✓ | ✓ |
| | Surface Clip | ✓ | ✓ | ✓ | ✓ |
| | Plug-in | | ✓ | | ✓ |
| Tripping curves | | 1, 3, 9, KM, OP | OP, U2, 1, 9 | 1, 2, 3, 9, OP | OP, U2, 1, 9 |
| Resistance to shock | | IEC 60068-2-27, 5G/30ms half sine wave | | | |
| Vibration | | IEC 77/IEC 60068-2-6, 3G/10-150Hz | | | |
| Operating temperature | | -40°C to +65°C | | | |
| Optional Accessories | | <ul style="list-style-type: none"> - Aux. switch - Aux. switch + trip alarm - Handle lock | | <ul style="list-style-type: none"> - Trip alarm - Bus bar | |
| Features | | <ul style="list-style-type: none"> - Compact 13mm/module width - Precision tripping - Temperature independent trip point | | <ul style="list-style-type: none"> - Hydraulic-magnetic technology - Suitable for isolation - Mid trip handle | |

* Polarity Sensitive

Q-Series Miniature Circuit Breakers

Features



QL

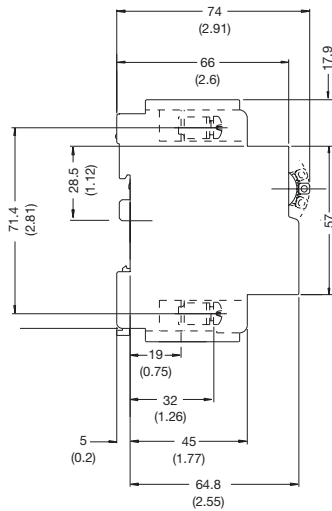
- AC circuit breaker
- UL 489 Listed
- VDE, CSA, CE Approved
- One and two pole units
- Current ratings up to 25A

QY

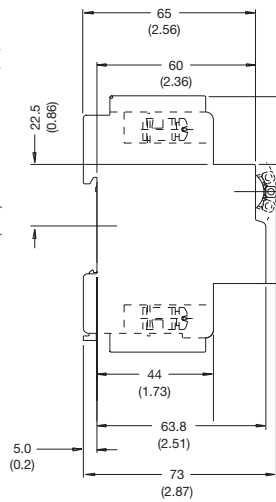
- DC circuit breaker
- UL 489A listed
- VDE & CE Approved
- One and two pole units
- Current ratings up to 150A
- 80V dc & 125V DC

QDC

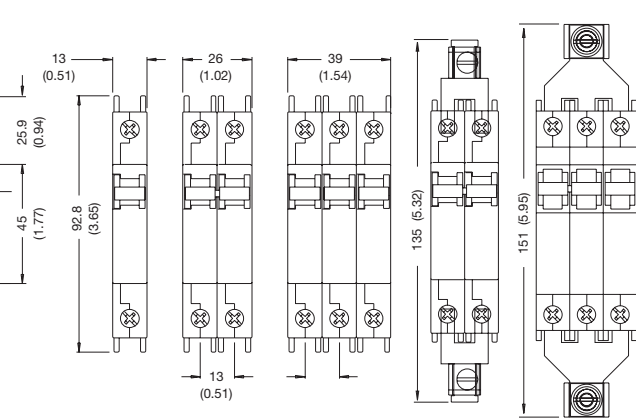
- DC circuit breaker
- VDE and CE Approved
- One and two pole units
- Current ratings up to 150A
- 80V DC 125V DC and 250V DC (250V DC 2 poles in series)



DUAL MOUNT



DIN RAIL MOUNT



NOTE: DIMENSIONS IN BRACKETS ARE IN "INCHES"

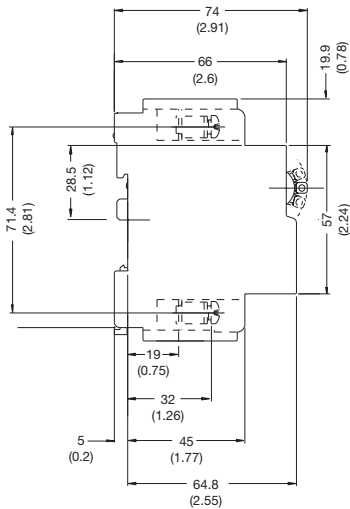
QY/QDC, 2 & 3 POLES BRIDGED IN PARALLEL

Features

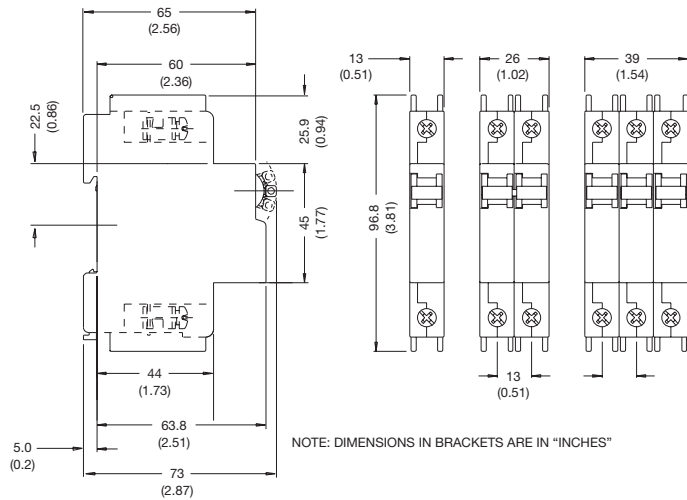


QZ

- AC circuit breaker
- UL 1077 Recognized
- VDE, CE, CSA certified
- One, two and three pole units
- Current ratings up to 60A



DUAL MOUNT



NOTE: DIMENSIONS IN BRACKETS ARE IN "INCHES"

DIN RAIL MOUNT

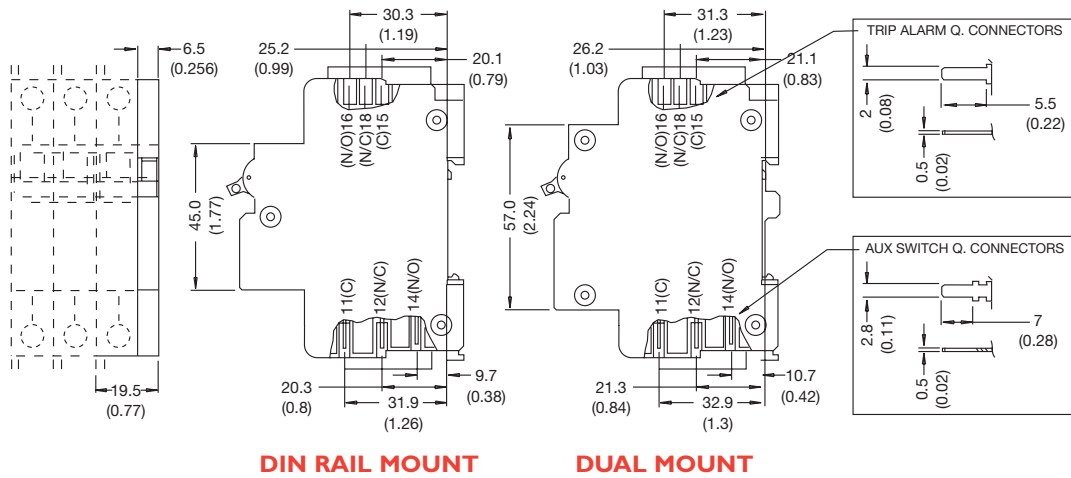
Q-Series Miniature Circuit Breakers

Features

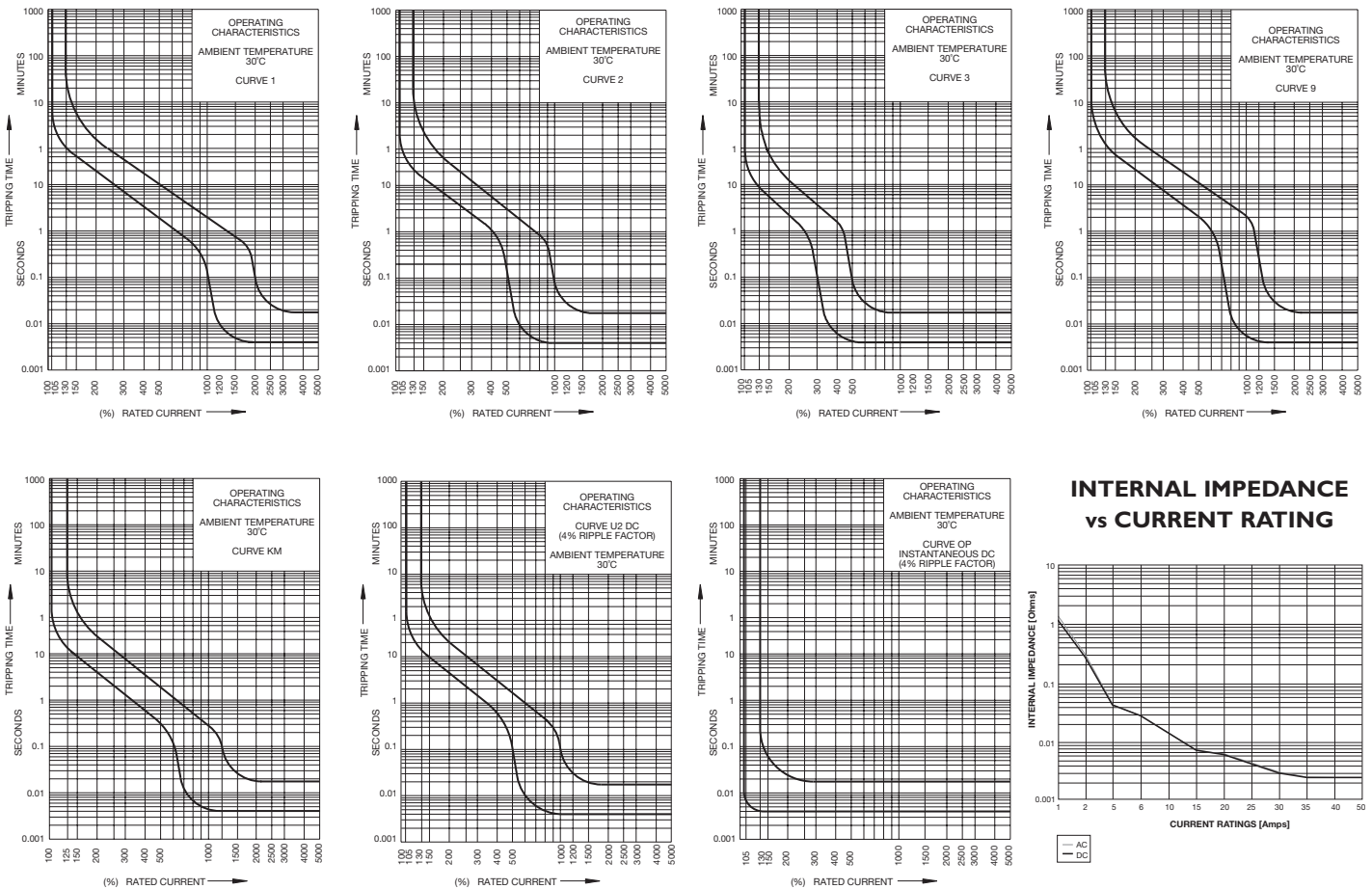


Auxiliary switch, Trip alarm, Combo

- AC and DC voltages
- UL 489 listed
(5A, 250V AC; 0.5A, 80V DC Auxiliary; 0.5A, 125V DC Trip alarm)
- IEC 60947-5-1 approved
(5A, 250V AC; 0.5A, 110V DC Auxiliary; 0.5A, 125V DC Trip alarm)
- Factory fitted
- Compact 6.5mm width
- Attached to right hand side of circuit breaker
- Available on Dual and DIN rail mounting



Standard Time Delay Curves



Q-Series Miniature Circuit Breakers

| Long Code | | | |
|---------------------------------|------|--|-----------------------------------|
| Group 1: Frame Type | Code | Frequency | Approvals |
| | QL | AC | UL 489 |
| | QY | DC | UL489A,VDE, CE |
| | QZ | AC | CURus,VDE,CE |
| | QDC | DC | EN 60947-2, CE |
| Group 2: | Code | Description | Comments |
| | N | Neutral Switch | Leave blank if not applicable |
| | S | Switch | Leave blank if not applicable |
| Group 3: Auxiliary | Code | Description | Comments |
| | A | Auxiliary Switch | Leave blank if not applicable |
| | T | Trip Alarm | |
| | AT | Auxiliary Switch + Trip Alarm | |
| | | | |
| Group 4: Number of Poles | Code | Description | Comments |
| | 1 | Single Pole | |
| | 2 | Double Pole | |
| | 3 | Triple Pole | |
| | 4 | Four Pole | |
| Group 5: Module width | Code | Description | Comments |
| | 13 | 13mm | |
| | 18 | 18mm | |
| | 19 | 19,5mm | |
| | 26 | 26mm | |
| Group 6: Mounting | Code | Description | Comments |
| | D | DIN – 45mm Escutcheon | |
| | DM | Dual Mount – DIN & Mini-Rail, 57mm Escutcheon | |
| | PI | Plug-in, DIN | |
| | P2 | Plug-in, Dual Mount | |
| Group 7: Time Delays | Code | Description | Comments |
| | 1 | Curve 1 | |
| | 2 | Curve 2 | |
| | 3 | Curve 3 | |
| | 9 | Curve 9 | |
| | U2 | Curve U2 | |
| | KM | Curve KM | |
| | OP | Instantaneous | |
| Group 8: Current Ratings | Code | Description | Comments |
| | 0.1 | 0.1A | |
| | 0.2 | 0.2A | |
| | 0.5 | 0.5A | |
| | 01 | 1A | |
| | 1.5 | 1.5A | |
| | 02 | 2A | |
| | 2.5 | 2.5A | |
| | 03 | 3A | |
| | 04 | 4A | |
| | 05 | 5A | |
| | 06 | 6A | |
| | 10 | 10A | |
| | 15 | 15A | |
| | 16 | 16A | For other ratings consult factory |
| | 20 | 20A | |
| | 25 | 25A | |
| | 30 | 30A | |
| | 32 | 32A | |
| | 35 | 35A | |
| 40 | 40A | | |
| 45 | 45A | | |
| 50 | 50A | | |
| 60 | 60A | | |
| 63 | 63A | | |
| 70 | 70A | | |
| 80 | 80A | | |
| 100 | 100A | | |
| 125 | 125A | | |
| 150 | 150A | | |
| Group 9: | Code | Description | Comments |
| | B0 | 80V DC Bottom Connected (Positive at bottom) | Leave blank if not applicable |
| | B1 | 125V DC Bottom Connected (Positive at bottom) | |
| | B2 | 250V DC Bottom Connected (Positive at bottom) | |
| | T3 | 250V DC with + and – connecting terminals at top | |
| | Z | DC – Bridged (Link not supplied) | |
| | | | |

Example codes: **QY-1(13)-D-U2-20A-B1**
QDC-2(13)-DM-U2-50A-B2
QL-A-2(13)-D-9-25A
QZ-N-AT-4(13)-DM-2-60A

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