

## 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	1, 2, 3, 1+N, 3+N	1, 2 2, 3p parallel 2 poles in series
Rated Voltage (V)		120V AC (1p)	80V DC	120V AC (1p)	80V DC
		120/240V AC(2p)	125V DC (1, 2p & 2p parallel)	240V AC (1p)	125V DC (1, 2p & 2p parallel)
		240V AC (1p)	Polarity sensitive	240/415V AC (2, 4p)	250V DC (2p in series)
		240/415V AC 2, 4p)		277V AC (1p) 277/480V AC (2, 3p)	Polarity sensitive
Approvals & Interrupt. Capacity (kA)	VDE (EN 60947-2)	6kA (240/415V AC)	10kA	3kA (240/415V AC)	10kA
	CE	✓	✓	✓	✓
	cULus (UL489_CSA)	10kA (120/240V AC)			
	UL489A	✓	10kA		
Mounting Options	cURus (UL1077_CSA)	✓		5kA (1p, 120V ac) 5kA (277/480V ac)	
	Dual Mounting (DIN & Mini)	✓	✓	✓	✓
	DIN Rail	✓	✓	✓	✓
	Surface Clip	✓	✓	✓	✓
	Plug-in		✓		✓
Tripping curves		1, 9, KM	OP, U2, 1, 9	1, 2, 3, 9	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"> <li>- Aux. switch</li> <li>- Aux. switch + trip alarm</li> <li>- Handle lock</li> </ul>		<ul style="list-style-type: none"> <li>- Trip alarm</li> <li>- Bus bar</li> </ul>	
Features		<ul style="list-style-type: none"> <li>- Compact 13mm/module width</li> <li>- Precision tripping</li> <li>- Temperature independent trip point</li> </ul>		<ul style="list-style-type: none"> <li>- Hydraulic-magnetic technology</li> <li>- Suitable for isolation</li> <li>- Mid trip handle</li> </ul>	

## Q-Series Miniature Circuit Breakers

### Features



### QL

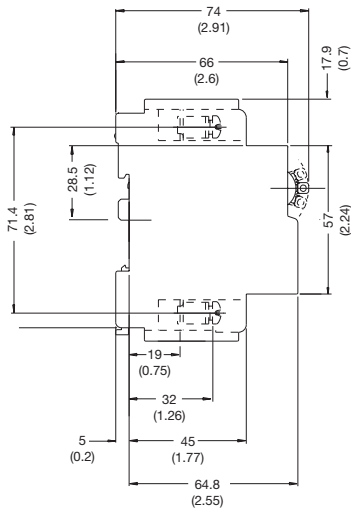
- AC circuit breaker
- UL 489 Listed
- VDE, CSA, CE Approved
- One and two pole units
- Current ratings up to 25A

### QY

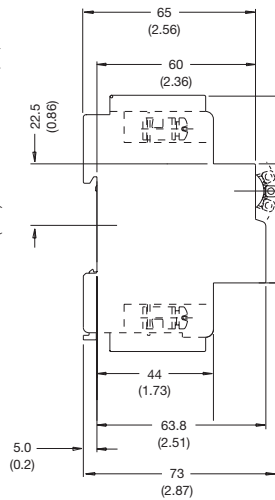
- DC circuit breaker
- UL 489A listed
- VDE & CE Approved
- One and two pole units
- Current ratings up to 150A
- 80V dc & 125V DC

### QDC

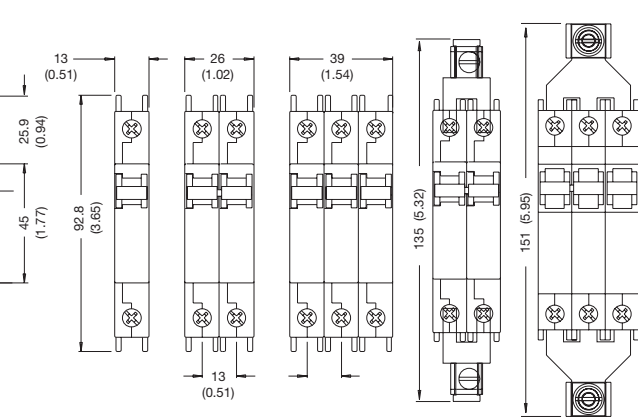
- DC circuit breaker
- VDE and CE Approved
- One and two pole units
- Current ratings up to 150A
- 80V DC 125V DC and 250V DC (250V DC 2 poles in series)



DUAL MOUNT



DIN RAIL MOUNT



NOTE: DIMENSIONS IN BRACKETS ARE IN "INCHES"

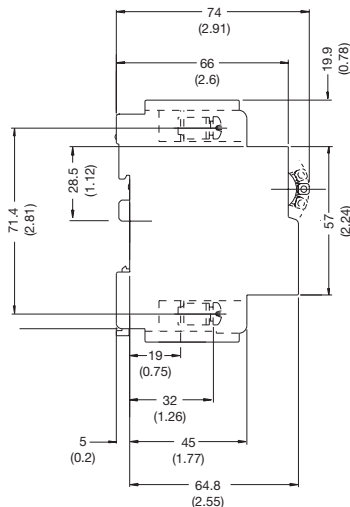
QY/QDC, 2 & 3 POLES BRIDGED IN PARALLEL

### Features

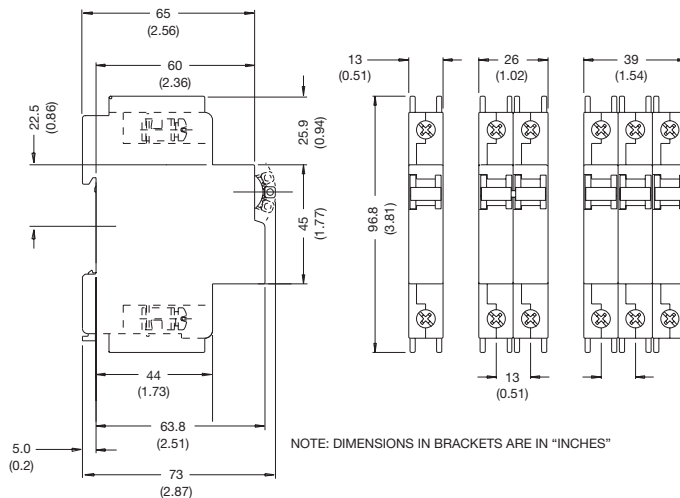


### QZ

- 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

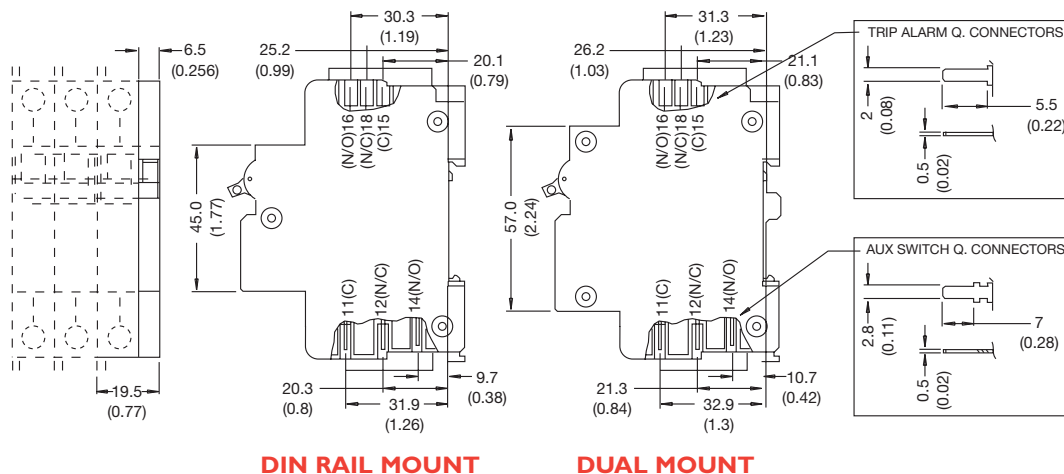
## Q-Series Miniature Circuit Breakers

### Features

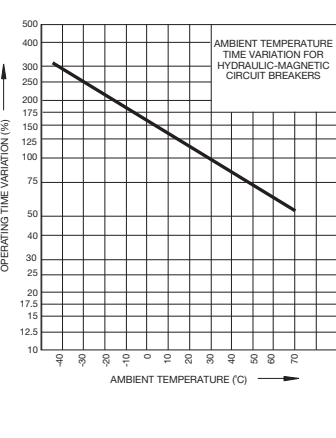
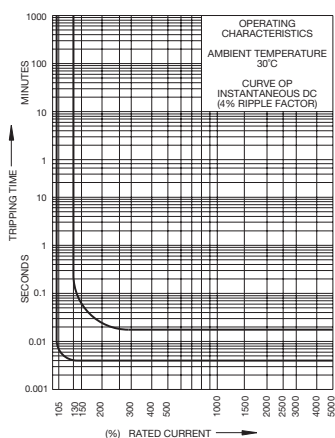
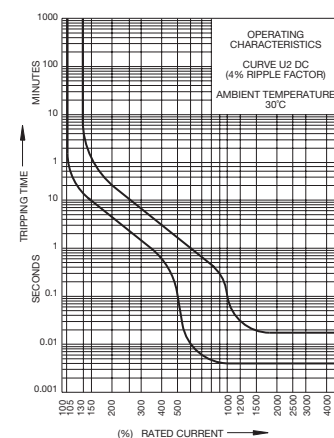
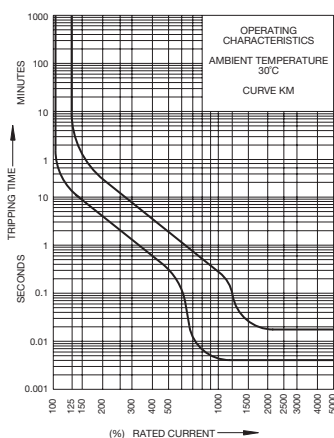
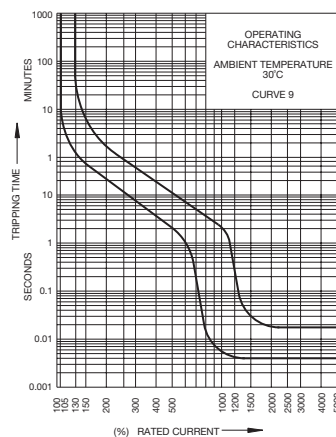
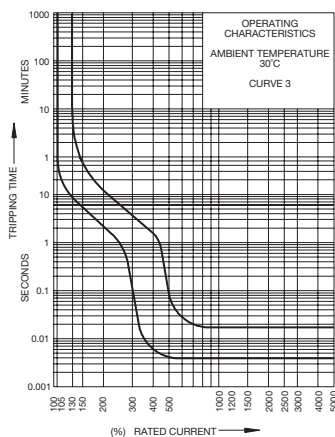
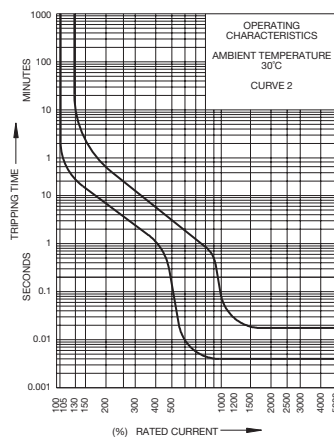
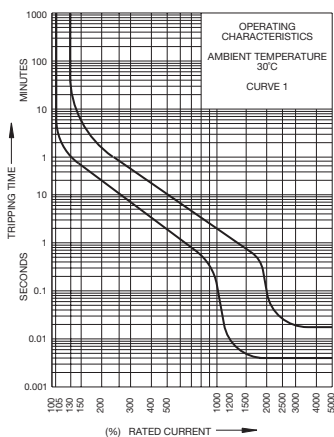


### Auxiliary switch, Trip alarm, Combo

- 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

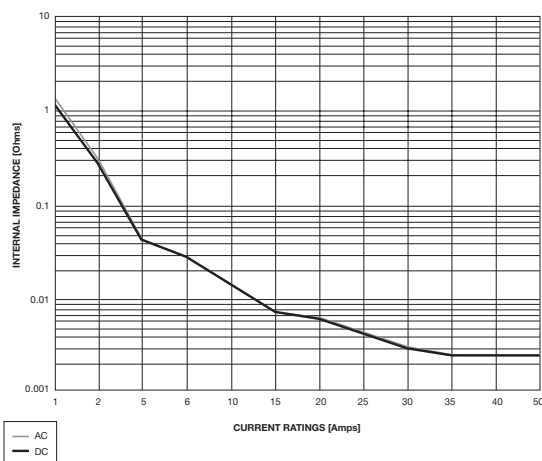


## Q-Series Miniature Circuit Breakers

Long Code			
<b>Group 1: Frame Type</b>	Code	Frequency	Approvals
	QL	AC	UL 489
	QY	DC	UL489A,VDE, CE
	QZ	AC	CURus,VDE,CE
	QDC	DC	EN 60947-2, CE
<b>Group 2:</b>	Code	Description	Comments
	N	Neutral	Leave blank if not applicable
<b>Group 3: Auxiliary</b>	Code	Description	Comments
	S	Switch	Leave blank if not applicable
	A	Auxiliary Switch	Leave blank if not applicable
	T	Trip Alarm	Leave blank if not applicable
<b>Group 4: Number of Poles</b>	Code	Description	Comments
	1	Single Pole	
<b>Group 5: Module width</b>	Code	Description	Comments
	13	13mm	
	18	18mm	
	19	19.5mm	
<b>Group 6: Mounting</b>	Code	Description	Comments
	26	26mm	
	D	DIN – 45mm Escutcheon	
	DM	Dual Mount – DIN & Mini-Rail, 57mm Escutcheon	
<b>Group 7: Time Delays</b>	Code	Description	Comments
	PI	Plug-in, DIN	
	P2	Plug-in, Dual Mount	
	1	Curve 1	
	2	Curve 2	
	3	Curve 3	
	9	Curve 9	
<b>Group 8: Current Ratings</b>	Code	Description	Comments
	U2	Curve U2	
	KM	Curve KM	
	OP	Instantaneous	
	0.1	0.1A	
	0.2	0.2A	
	0.5	0.5A	
	01	1A	
	1.5	1.5A	
	02	2A	
2.5	2.5A		
<b>Group 9:</b>	Code	Description	Comments
	03	3A	
	04	4A	
	05	5A	
	06	6A	
	10	10A	
	15	15A	
	16	16A	
	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		
B0	80V DC Bottom Connected (Positive at bottom)	Leave blank if not applicable	
B1	125V DC Bottom Connected (Positive at bottom)	Leave blank if not applicable	
B2	250V DC Bottom Connected (Positive at bottom)	Leave blank if not applicable	
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-60A

### INTERNAL IMPEDANCE vs CURRENT RATING



A member of the REUNERT Group

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