

Q-Series Miniature Circuit Breakers



Product Type		QL	QY	QZ	QDC
Standard Ampere Ratings (A)			0.1 – 63 (1 pole)	0.1 – 60 (UL 1077)	0.1 – 63 (1 pole)
			0.1 – 50 (2 poles)	5 – 50 (IEC 60947-2)	0.1 – 50 (2 poles)
		0.1 – 25	20 – 100 (2p parallel)		20 – 100 (2p parallel)
			110 – 150 (3p parallel)		110 – 150 (3p parallel)
Number of Poles		1, 2, 3, 1+N, 3+N	1, 2	1, 2, 3, 1+N, 3+N	1, 2
			2, 3p parallel		2, 3p parallel
			2 poles in series		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	240V AC (1p)	*125V DC (1, 2p & 2p
		240V AC (1p)	parallel)	240/415V AC (2, 4p)	parallel)
		240/415V AC 2, 4p)	*250V DC (2p in series)	277V AC (1p)	*250V DC (2p in series)
			277/480V AC (2, 3p)		
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		
	cURus (UL1077_CSA)			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, I, 9	1, 2, 3, 9, OP	OP, U2, I, 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		– Aux. switch – Aux. switch + trip alarm – Handle lock		– Trip alarm – Bus bar	
Features		– Compact 13mm/module width – Precision tripping – Temperature independent trip point		– Hydraulic-magnetic technology – Suitable for isolation – Mid trip handle	

* Polarity Sensitive

Q-Series Miniature Circuit Breakers

Features



QL

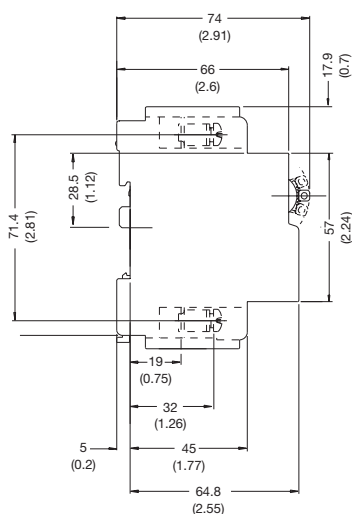
- AC circuit breaker
- UL 489 Listed
- VDE, CSA, CE Approved
- One and two pole units
- Current ratings up to 25A

QY

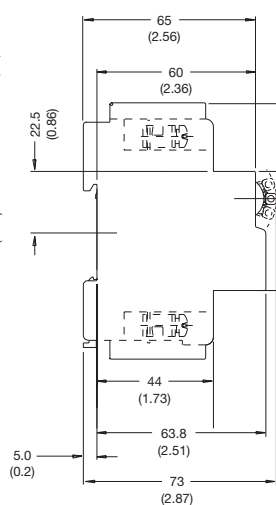
- DC circuit breaker
- UL 489A listed
- VDE & CE Approved
- One and two pole units
- Current ratings up to 150A
- 80V dc & 125V DC

QDC

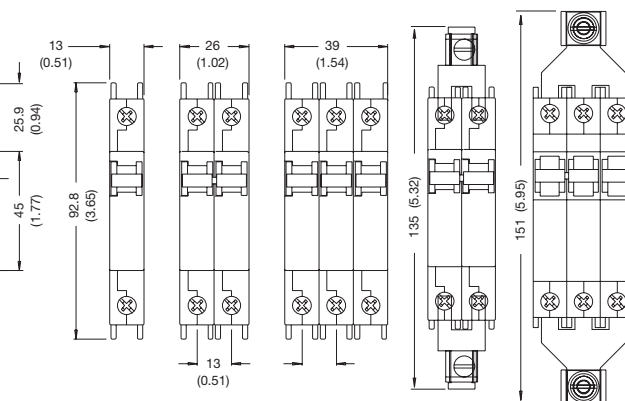
- DC circuit breaker
- VDE and CE Approved
- One and two pole units
- Current ratings up to 150A
- 80V DC 125V DC and 250V DC (250V DC 2 poles in series)



DUAL MOUNT



DIN RAIL MOUNT



NOTE: DIMENSIONS IN BRACKETS ARE IN "INCHES"

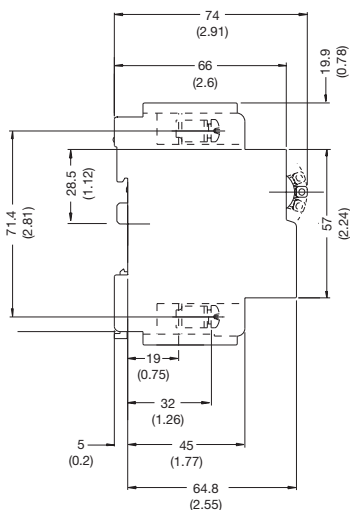
**QY/QDC, 2 & 3 POLES
BRIDGED IN PARALLEL**

Features

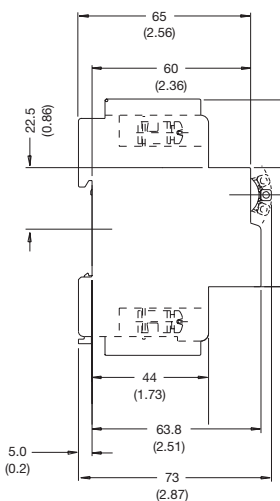


QZ

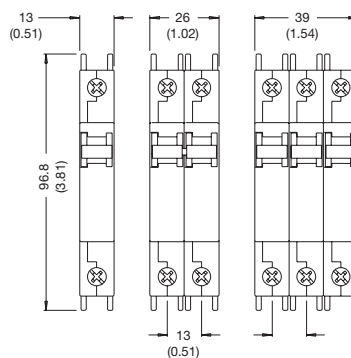
- AC circuit breaker
- UL 1077 Recognized
- VDE, CE, CSA certified
- One, two and three pole units
- Current ratings up to 60A



DUAL MOUNT



DIN RAIL MOUNT



NOTE: DIMENSIONS IN BRACKETS ARE IN "INCHES"

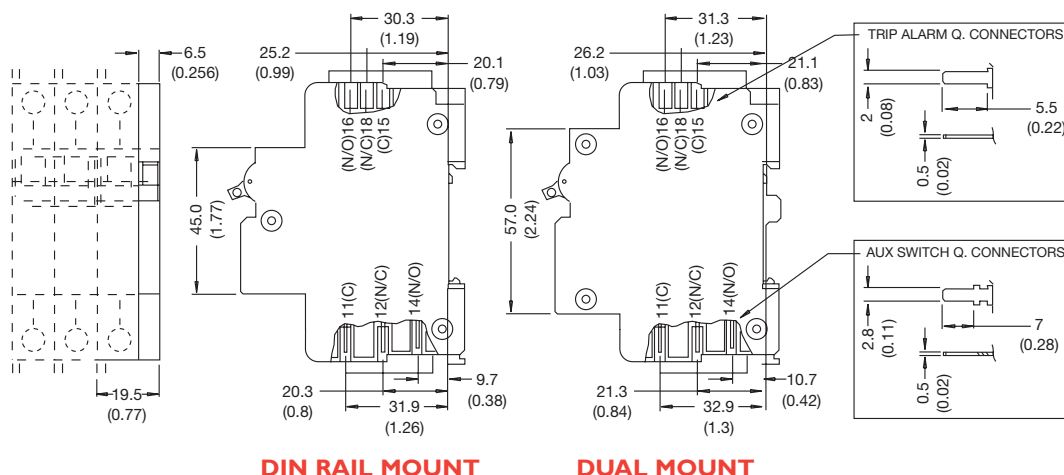
Q-Series Miniature Circuit Breakers

Features

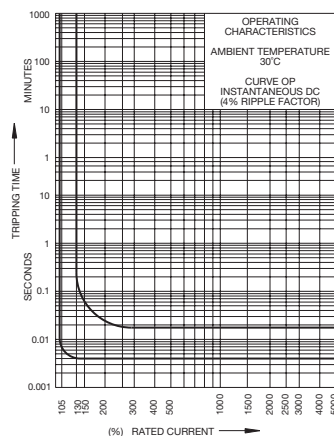
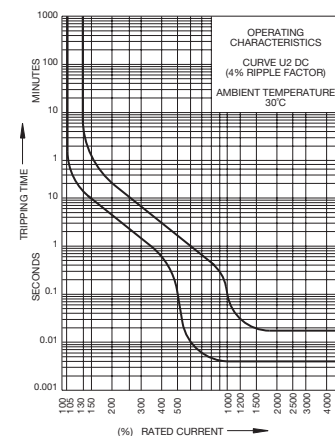
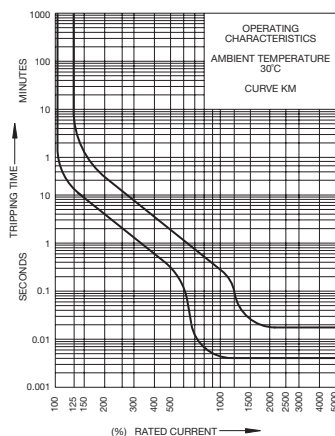
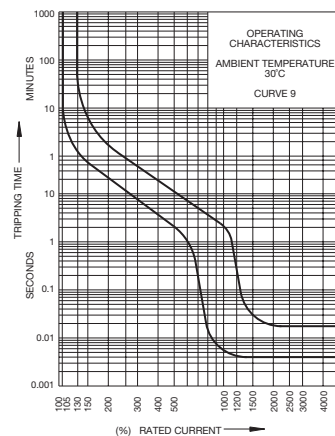
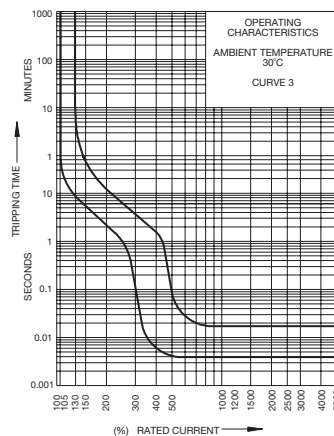
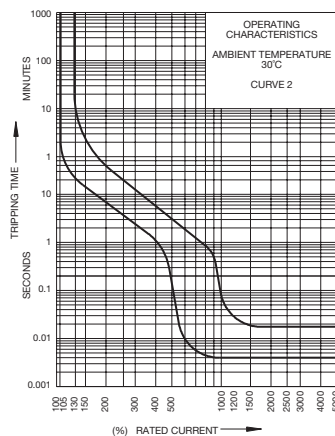
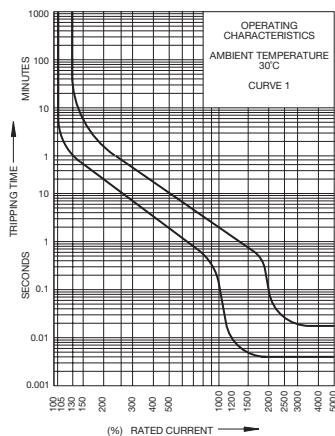


Auxiliary switch, Trip alarm, Combo

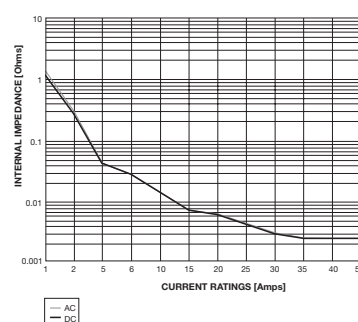
- AC and DC voltages
- UL 489 listed
(5A, 250V AC; 0.5A, 80V DC Auxiliary; 0.5A, 125V DC Trip alarm)
- IEC 60947-5-1 approved
(5A, 250V AC; 0.5A, 110V DC Auxiliary; 0.5A, 125V DC Trip alarm)
- Factory fitted
- Compact 6.5mm width
- Attached to right hand side of circuit breaker
- Available on Dual and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



Standard Time Delay Curves



INTERNAL IMPEDANCE vs CURRENT RATING



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
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	
	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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