

Q-Series Miniature Circuit Breakers









Product Ty	ne .	OL	OY	OZ	ODC	
Standard Ampere Ratings (A)		٧-	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)	0 00 (120 001 11 2)	20 – 100 (2p parallel)	
		0.1 25	110 – 150 (3p parallel)		110 – 150 (3p parallel)	
Number of Po	les	I, 2, 3, I+N, 3+N	1,2	I, 2, 3, I+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 (I _P)	80V DC	
		120/240V AC(2 _p)	*125V DC (1, 2p & 2p	240V AC (I _P)	*125V DC (1, 2p & 2p	
		240V AC (Ip)	parallel)	240/415V AC (2, 4p)	parallel)	
		240/415V AC 2, 4p)	*250V DC (2p in series)	277V AC (Ip)	*250V DC (2p in series)	
		<u>_,</u> . _F /	(-р с)	277/480V AC (2, 3p)	(
Approvals	VDE (EN 60947-2)	6kA (240/415V AC)	I0kA	3kA (240/415V AC)	I0kA	
&	CE \	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	
Interrupt.	cULus (UL489_CSA)	10kA (120/240V AC)				
Capacity (kA)	UL489A	,	I0kA			
	cURus			5kA (1p, 120V ac)		
	(UL1077_CSA)			5kA (277/480V ac)		
Mounting	Dual Mounting		√		√	
Options	(DIN & Mini)					
	DIN Rail	$\sqrt{}$	\checkmark	$\sqrt{}$	\checkmark	
	Surface Clip		√	$\sqrt{}$	√	
	Plug-in		$\sqrt{}$			
Tripping curve	S	I, 3, 9, KM, OP	OP, U2, 1, 9	1, 2, 3, 9, OP	OP, U2, 1, 9	
Resistance to s	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 Acces	ssories	Aux. switchTrip alarm				
		Aux. switch + trip alarmBus bar				
		- Handle lock				
Features		 Compact I3mm/module width Hydraulic-magnetic technology 				
		Precision trippingSuitable for isolation				
		 Temperation 	ure independent trip point	 Mid trip handle 		

^{*} Polarity Sensitive



O-Series Miniature Circuit Breakers

Features

Open State of the State of the

QL

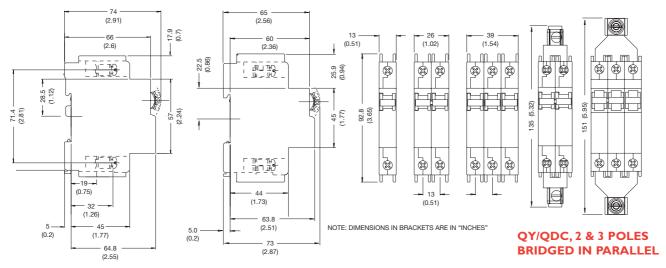
- AC circuit breaker
- UL 489 Listed
- VDE, CSA, CE Approved
- One and two pole units
- Current ratings up to 25A

QY

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

ODC

- 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

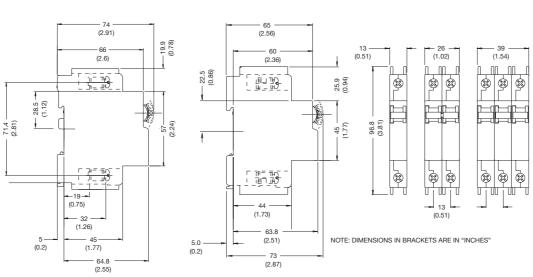
DIN RAIL MOUNT

Features



- 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

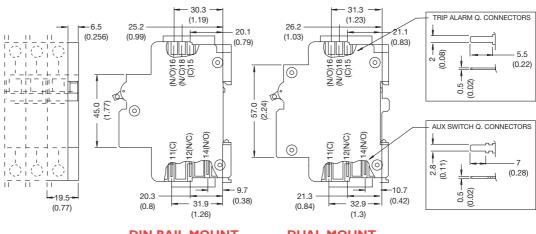


O-Series Miniature Circuit Breakers

Features

Auxiliary switch, Trip alarm, Combo

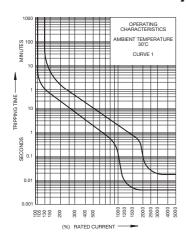
- AC and DC voltages
- UL 489 listed (5A, 250V AC; 0.5A, 80V DC Auxiliary; 0.5A, 125V DC Trip alarm)
- IEC 60947-5-1 approved (5A, 250V AC; 0.5A, 110V DC Auxiliary; 0.5A, 125V DC Trip alarm)
- Factory fitted
- Compact 6.5mm width
- Attached to right hand side of circuit breaker
- Available on Dual and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

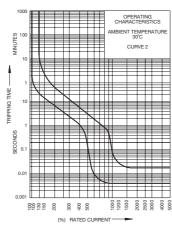


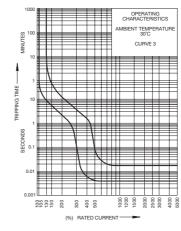
DIN RAIL MOUNT

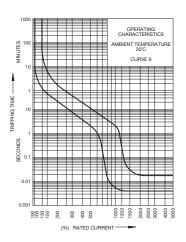
DUAL MOUNT

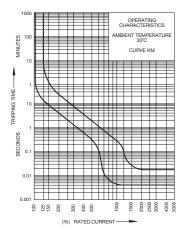
Standard Time Delay Curves

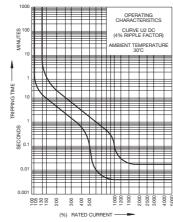


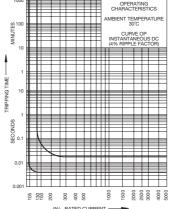


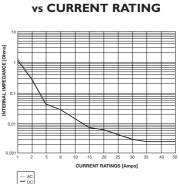












INTERNAL IMPEDANCE



Q-Series Miniature Circuit Breakers

Long Code							
Group I: Frame	Code	Frequency	Approvals				
Туре	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	Leave blank if				
	S	Switch	not applicable				
Group 3: Auxiliary	Code	Description	Comments				
	A		Leave blank if				
	T	Auxiliary Switch Trip Alarm	not applicable				
	AT	Auxiliary Switch + Trip Alarm	пос аррисавіе				
Group 4: Number	Code	Description	Comments				
of Poles	Code		Comments				
or roles	2	Single Pole					
	3	Double Pole					
	4	Triple Pole					
Group 5: Module		Four Pole	C				
width	Code	Description	Comments				
WIGGI	13	13mm					
	18	18mm					
	19	19.5mm					
Group 6: Mounting	26 Code	26mm	Comments				
Group of Flouriting		Description	Comments				
	D	DIN – 45mm Escutcheon					
	DM	Dual Mount – DIN & Mini-Rail, 57mm Escutcheon					
	PI	Plug-in, DIN					
Group 7: Time	P2	Plug-in, Dual Mount	C				
Delays	Code	Description	Comments				
Delays	l	Curve I					
	2	Curve 2					
	3	Curve 3					
		Curve 9					
	U2 KM	Curve U2 Curve KM					
	OP	Instantaneous					
Group 8: Current	Code	Description	Comments				
Ratings	0.1	0.1A	Comments				
	0.2	0.2A					
	0.5	0.5A					
	0.5 01	0.5A IA					
	0.5	0.5A					
	0.5 01 1.5	0.5A IA I.5A					
	0.5 01 1.5 02	0.5A IA 1.5A 2A					
	0.5 01 1.5 02 2.5 03 04	0.5A 1A 1.5A 2A 2.5A 3A 4A					
	0.5 01 1.5 02 2.5 03 04 05	0.5A IA I.5A ZA Z.5A 3A 4A 5A					
	0.5 01 1.5 02 2.5 03 04 05	0.5A 1A 1.5A 2A 2.5A 3A 4A 5A					
	0.5 01 1.5 02 2.5 03 04 05 06	0.5A 1 A 1.5A 2 A 2.5A 3 A 4 A 5 A 6 A 10 A					
	0.5 01 1.5 02 2.5 03 04 05 06 10	0.5A 1A 1.5A 2A 2.5A 3A 4A 5A 6A 10A					
	0.5 01 1.5 02 2.5 03 04 05 06 10	0.5A 1A 1.5A 2A 2.5A 3A 4A 5A 6A 10A 115A	For other ratings				
	0.5 01 1.5 02 2.5 03 04 05 06 10 15 16	0.5A 1A 1.5A 2A 2.5A 3A 4A 5A 6A 10A 15A 16A	For other ratings consult factory				
	0.5 01 1.5 02 2.5 03 04 05 06 10 15 16 20 25	0.5A 1A 1.5A 2A 2.5A 3A 4A 5A 6A 10A 15A 16A 20A 25A					
	0.5 01 1.5 02 2.5 03 04 05 06 10 15 16 20 25 30	0.5A 1A 1.5A 2A 2.5A 3A 4A 5A 6A 10A 115A 16A 20A 25A 30A					
	0.5 01 1.5 02 2.5 03 04 05 06 10 15 16 20 25 30 32	0.5A 1A 1.5A 2A 2.5A 3A 4A 5A 6A 10A 115A 16A 20A 25A 30A 32A					
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	0.5 01 1.5 02 2.5 03 04 05 06 10 15 16 20 25 30 32 32 40 45 60 60	0.5A 1A 1.5A 2.5A 2.5A 3.A 4.A 5.A 6.A 10A 1.5A 2.0A 2.5A 3.0A 3.2A 3.5A 4.0A 4.5A 6.A 6.A 6.A 6.A 6.A 6.A 6.A 7.OA					
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	0.5 01 1.5 02 2.5 03 04 05 10 15 16 20 25 30 32 35 40 45 50 60 63 70 80 100 125	0.5A 11A 11.5A 2A 2.5A 3A 4A 5A 6A 10A 115A 16A 20A 25A 30A 32A 35A 40A 45A 50A 60A 60A 63A 70A 80A 100A 1125A					
Group 9:	0.5 01 1.5 02 2.5 03 04 05 06 10 15 16 20 25 30 32 35 40 45 50 60 60 63 70 80 100 100 100 100 100 100 100 100 100	0.5A 11A 1.5A 2.A 2.5A 3.A 4.A 5.A 6.A 110A 1.5A 1.6A 2.0A 2.5A 3.0A 3.2A 3.35A 4.0A 4.5A 5.0A 6.0A 6.0A 6.0A 6.0A 6.0A 6.0A 6.0A 6	consult factory				
Group 9:	0.5 01 1.5 02 2.5 03 04 05 06 10 15 16 20 25 30 32 32 35 40 45 50 60 63 70 60 60 60 60 60 60 60 60 60 60 60 60 60	0.5A 1A 1.5A 2.5A 2.5A 3.A 4.A 5.A 6.A 100A 115.A 16A 2.0A 2.55A 3.0A 3.2A 3.5A 4.0A 4.5A 5.0A 6.0A 6.0A 6.0A 6.0A 6.0A 6.0A 6.0A 6	consult factory				
Group 9:	0.5 01 1.5 02 2.5 03 04 05 06 10 15 16 20 25 30 40 45 50 60 63 70 80 80 125 150 Code 80	0.5A 1A 1.5A 1.5A 2.A 2.5A 3.A 4.A 5.A 6.A 10.A 1.5A 1.6A 2.0A 2.5A 3.0A 3.2A 3.5A 4.0A 4.5A 5.A 6.A 6.A 1.A 6.A 6.A 6.A 6.A 6.A 6.A 6.A 6.A 6.A 6	Comments Leave blank if				
Group 9:	0.5 01 1.5 02 2.5 03 04 05 06 10 15 16 20 25 30 32 35 40 60 63 70 80 125 150 Code B0 B1	0.5A IA IA I.5A 2A 2.5A 3A 4A 5A 6A IIOA IISA IIIOA III	consult factory				
Group 9:	0.5 01 1.5 02 2.5 03 04 05 06 10 15 16 20 25 30 32 35 40 40 45 50 60 60 60 60 60 60 60 60 60 60 60 60 60	0.5A 1A 1.5A 1.5A 2.6 2.5A 3.8 4.4 5.8 6.8 10.0 11.5A 16.8 2.0 2.5A 3.0 3.0 3.2 3.5 3.0 3.2 3.5 4.0 3.0 4.5 3.0 8.0 4.0 8.0 8.0 1.0 8.0 8.0 1.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	Comments Leave blank if				
Group 9:	0.5 01 1.5 02 2.5 03 04 05 06 10 15 16 20 25 30 32 35 40 60 63 70 80 125 150 Code B0 B1	0.5A IA IA I.5A 2A 2.5A 3A 4A 5A 6A IIOA IISA IIIOA III	Comments Leave blank if				

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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