



QZ-Series Miniature Circuit Breakers

Features

- AC Circuit Breaker
- Hydraulic-Magnetic Technology
- 100% Rating Capability Independent of Ambient Temperature
- Up to Four Poles
- CSA, VDE and CE Approved
- UL Recognized (UL 1077)
- Ratings up to 60A
- Optional Auxiliary / Trip Alarm Switch - Factory Fitted
- Wide Range of Time Delays and Operating Currents
- Precision Tripping
- Current Limiting Capabilities
- Ultra Compact – 13mm Width Module
- Trip Indication with Mid-Trip Handle
- Reset Immediately After Overload



Applications

- UPS Equipment
- Mobile Power-Generation Equipment
- Power Conditioning Equipment
- Alternative Energy Equipment
- Lighting Control

Technical Data

Product Type	Circuit Breaker	Circuit Breaker	Circuit Breaker
Approvals	UL 1077 / CSA	IEC / EN 60947-2, VDE, CE	UL 60947-4-1A
Number of Poles	1, 2, 3	1, 1 + N, 2, 3, 3 + N	1, 2, 3
Operating Voltages	120VAC, 240VAC, 277/480VAC	240/415VAC	277/480VAC
Current Ratings	0.1 - 60A	5 - 50A	0.1 - 40A (1p), 30A (2, 3p)
Interrupting Capacity	5kA	3kA	5kA
Operating Temperature Range	-40°C to +65°C		
Mounting Options	DIN Rail, Dual Mounting (DIN & Mini), Surface mounting clip		
Tripping Curves	1, 2, 3, 9, OP		

Breaker QZ	Wire Size UL	Wire Size mm ²	Torque	Comments
1-3 Poles	2 - AWG	35mm ²	28 in-lb	Pozi driv #2 Screw head
	14-6 – AWG	2.5 -16mm ²	20 in-lb	
	16 – AWG	1.5mm ²		
	18 – AWG	0.75mm ²		

QZ-Series Miniature Circuit Breakers

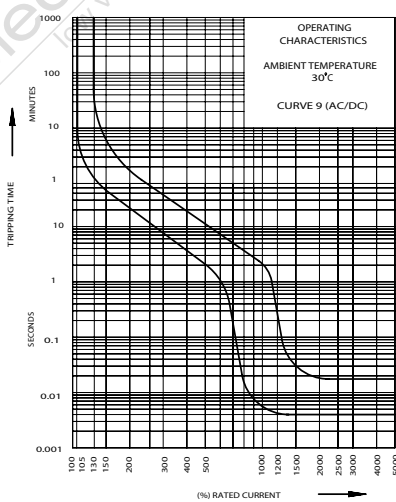
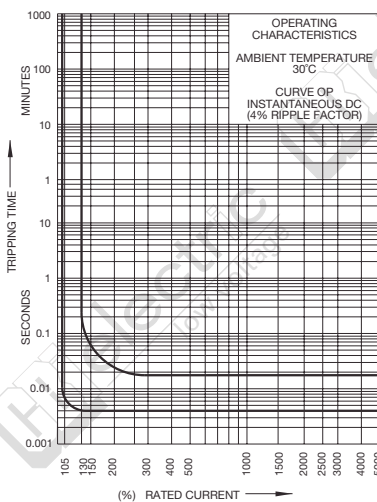
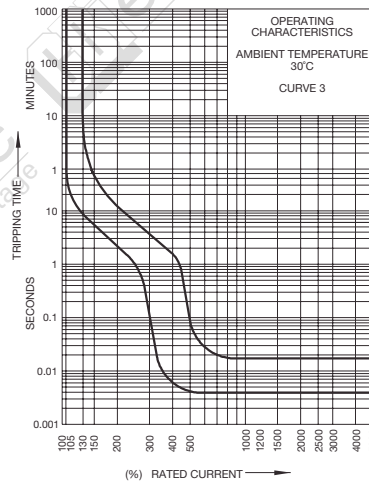
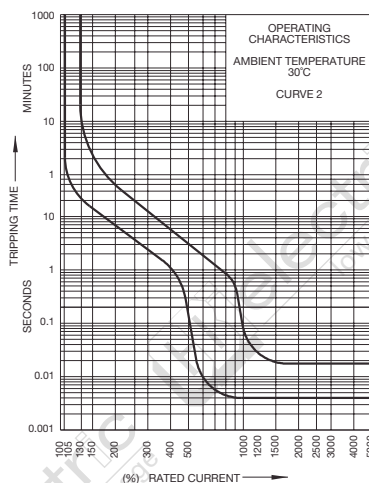
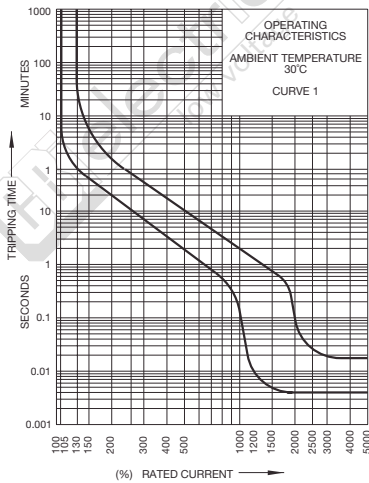
Optional Accessories

- Auxiliary Switch
- Auxiliary Switch + Trip Alarm
- Trip Alarm
- Handle Lock
- Surface Mounting Clips
- Busbar
- 57mm Escutcheon Blank

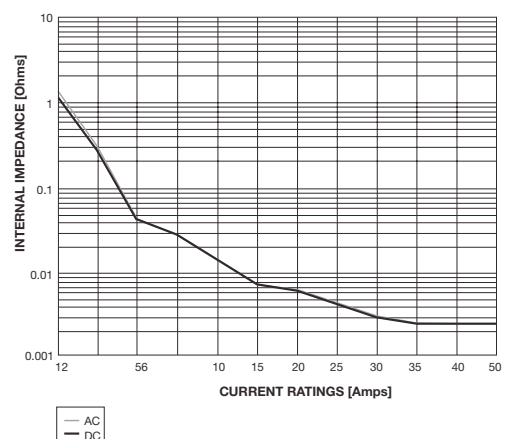
Auxiliary Switch, Trip Alarm & Combo: Features

- AC and DC Voltages
- UL 489 Listed (Auxiliary switch: 6A 250V AC, 0.5A 80V DC; Trip alarm: 5A 250V AC, 0.5A 125V DC)
- IEC 60947-5-1 Approved (Auxiliary switch: 6A 250V AC, 0.5A 80V DC; Trip alarm: 5A 250V AC, 0.5A 125V DC)
- Factory Fitted
- Attached to Right Hand Side of Circuit Breaker
- Compact 6.5mm Width
- Available in Dual and DIN Rail Mounting

Standard Time Delay Curves



Internal Impedance vs Current Rating



QZ-Series Miniature Circuit Breakers

Example Code: QZ-A-1(13)-D-2-20A

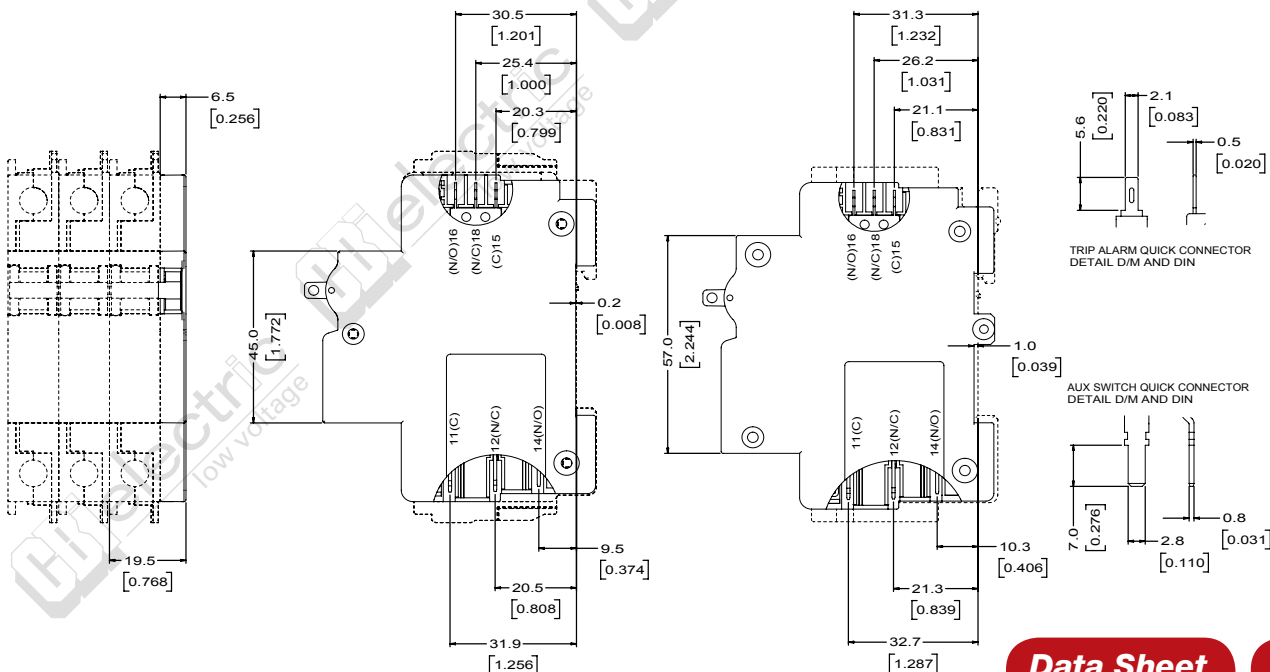
Group	1	2	3	4	5	6	7	8
Requirement	QZ Frame	Switch/Neutral	Auxiliary	Single Pole	13mm	DIN Rail	Medium Delay	20A
Long Code	QZ		A	1	(13)	D	2	20A

Long Code

Group 1: Frame Type	Code	Description	Comments	
QZ	QZ	13mm width miniature circuit breaker	UL 1077, IEC / EN 60947-2, VDE, CE	
Group 2: Switch/Neutral	Code	Description		
N	N	Neutral	2p (1p+N), 4p (3p+N)	
S	S	Switch		
		Leave blank if group is not applicable		
Group 3: Auxiliary Switch	Code	Description	Comments	
A	A	Auxiliary switch	Leave blank if not applicable	
T	T	Trip alarm		
AT	AT	Auxiliary switch + trip alarm combo		
Group 4: Number of Poles	Code	Description	Code	Description
1	1	Single pole	3	Triple pole
2	2	Double pole	4	Four pole
Group 5: Module Width	Code	Description	Comments	
(13)	(13)	13mm module width	13mm per pole	
Group 6: Mounting	Code	Description	Comments	
D	D	DIN rail mount	45mm Escutcheon, Grey body	
DM	DM	Dual mount	57mm Escutcheon, Black body	
Group 7: Time Delays	Code	Description	Instantaneous Trip Point (x In)	Comments
1	1	Long, high instantaneous trip	10 - 20	Orange handle
2	2	Medium	5 - 10	White handle
3	3	Short	3 - 5	White handle
9	9	Long	7 - 12	White handle
OP	OP	Instantaneous	None	White handle
Group 8: Current Ratings	Code	Description	Comments	
0.1A	0.1A	0.1A	Examples only. Any rating possible from 0.1 – 60A.	
1A	1A	1A		
1.5A	1.5A	1.5A		
5A	5A	5A		
10A	10A	10A		
25A	25A	25A		

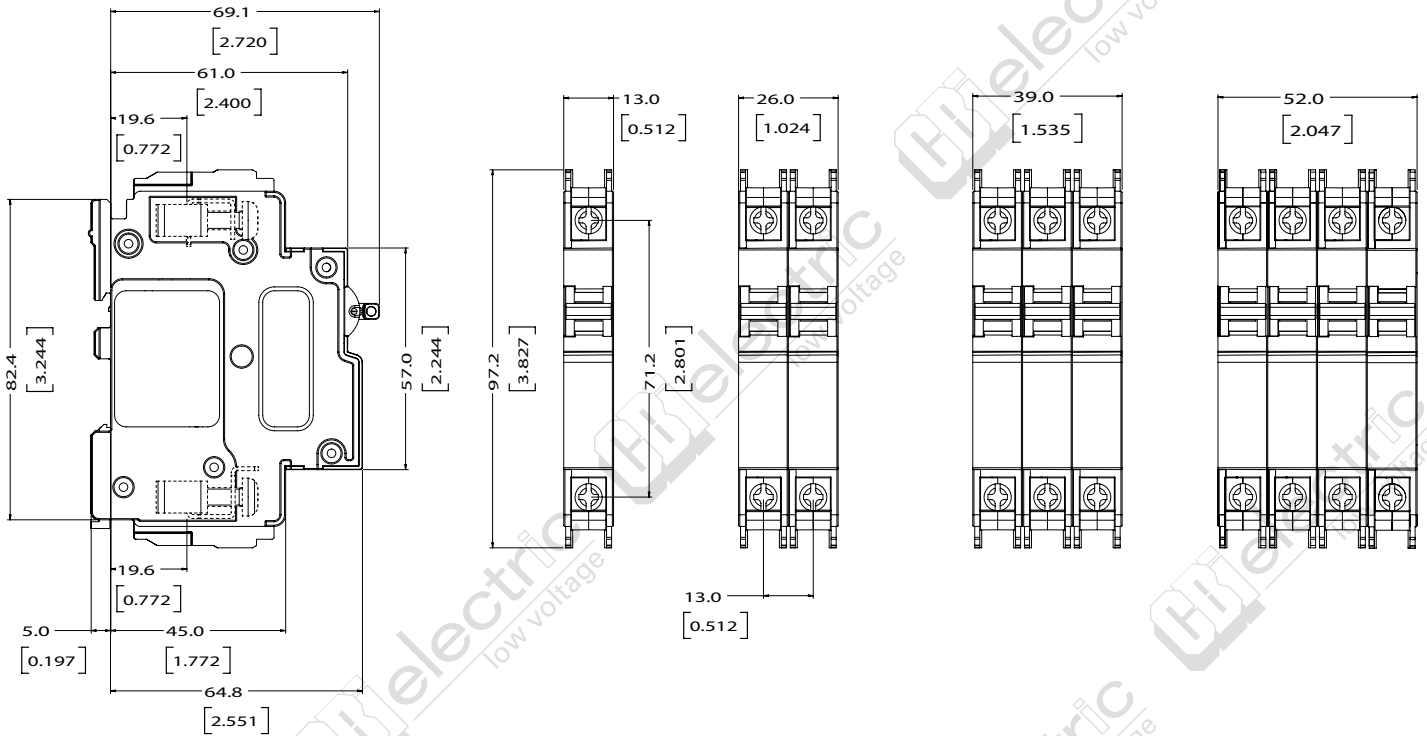
For options not listed, please contact CBI for assistance

Auxiliary Outline Dimensions: DIN & Dual Mount

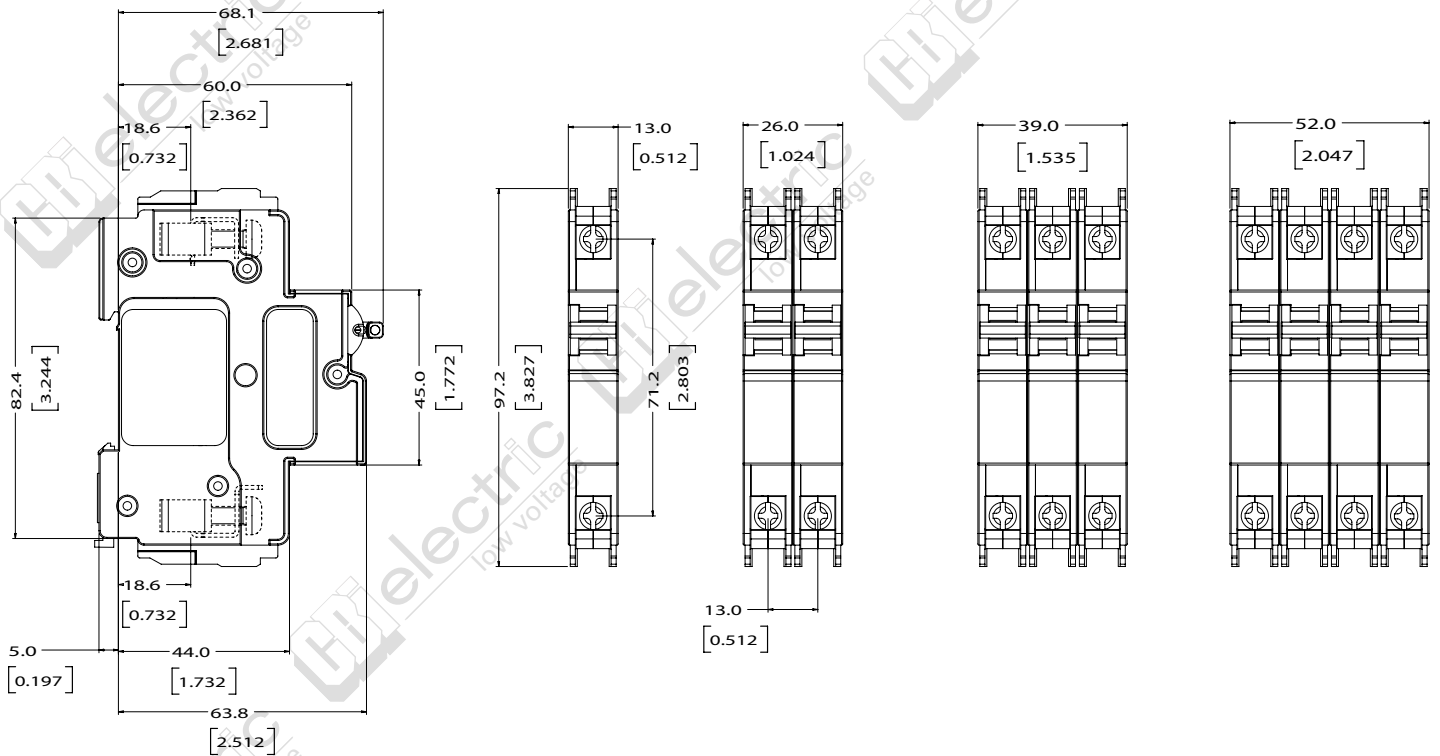


QZ - Series Miniature Circuit Breakers

Outline Dimensions: Dual Mount



Outline Dimensions: DIN Mount



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