

QF(13) - Series Miniature Circuit Breakers



DIN Mount
1 pole



DIN Mount
2 pole



DIN Mount
3 pole



DIN Mount
3 + N

Features

- AC circuit breaker
- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- One, two, three, four pole, 1+N and 3+N
- VC 8036 compliant (SANS 556-1)
- VDE, EAC and CCC approved, CE certified
- UL 1077 recognised (supplementary protector)
- AS/NZS 3111 approved
- Ratings 0.1 to 25 A (subject to certification)
- Optional shunt trip (approvals pending)
- Available in various currents and time delays
- Precision tripping characteristics
- Ultra compact – 13 mm wide module
- Trip indication with mid-trip position
- Reset immediately after overload
- DIN mount product in grey shells
- Suitable to use for electrical isolation
- Shell designed for easier installation onto busbar

Auxiliary Switch:

Features

- Auxiliary switch
- AC and DC voltages
- UL 489 listed (6 A 250 V AC, 0.5 A 80 V DC)
- IEC 60947-5-1 approved (6 A 240 V AC, 0.5 A 110 V DC)
- Factory fitted
- Attached to right hand side of circuit breaker
- Compact 6.5 mm width

Applications

- AC branch circuit protection (IEC / EN 60947-2)
- Switch disconnector (IEC / EN 60947-3)
- Supplementary protection (UL 1077)
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Railway signalling equipment
- Residential equipment
- Industrial equipment

Optional Accessories

- Handle lock
- Surface mounting clips
- Busbar

Approvals

VC 8036



(IEC / EN 60947-2 / 3)



AS/NZS 3111

QFA-SERIES-DAT
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QF(13) - Series Miniature Circuit Breakers

Technical Data

Product Type	Circuit Breaker				
Approvals	VC 8036 (SANS 556-1)				
Number of Poles	1	2 (1+N)	2	3	4 (3+N)
Operating Voltages	240 V AC		415 V AC		
Minimum Current Rating	5 A				
Maximum Current Rating	25 A				
Specific Ratings (Verify Certification)	0.1, 0.2, 0.3, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 16, 20, 25 A				
Interrupting Capacity	5 kA				

Product Type	Circuit Breaker				
Approvals	IEC / EN 60947-2, VDE, CE, EAC				
Number of Poles	1	2 (1+N)	2	3	4 (3+N)
Operating Voltages	240 V AC		415 V AC		
Minimum Current Rating	0.1 A				
Maximum Current Rating	25 A				
Specific Ratings (Verify Certification)	0.1, 0.2, 0.3, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 16, 20, 25 A				
Interrupting Capacity	6 kA				

Product Type	Supplementary Protector	
Approvals	UL 1077	
	Tested with and without series fuse	
Number of Poles	1	2
Operating Voltages	120 V AC	120 / 240 V AC
Minimum Current Rating	0.1 A	
Maximum Current Rating	25 A	
Interrupting Capacity	5 kA	

Product Type	Circuit Breaker				
Approvals	CCC				
Number of Poles	1	2 (1+N)	2	3	4 (3+N)
Operating Voltages	240 V AC		415 V AC		
Minimum Current Rating	1 A				
Maximum Current Rating	25 A				
Interrupting Capacity	6 kA				

Product Type	Circuit Breaker				
Approvals	AS/NZS 3111				
Number of Poles	1	2 (1+N)	2	3	
Operating Voltages	240 V AC		415 V AC		
Minimum Current Rating	0.1 A				
Maximum Current Rating	25 A				
Interrupting Capacity	6 kA				

QF(13) - Series Miniature Circuit Breakers

Technical Data

Product Type	Switch Disconnecter			
Approvals	SANS 60947-2, IEC / EN 60947-3			
Number of Poles	1	2	3	4
Operating Voltages	240 V AC	415 V AC		
Current Rating	63 A			
Short-time Withstand	6 kA			

Auxiliary Module	
Auxiliary Switch	DIN and CBI Mini Rail mounted

Product Type	QF(13)
Operating Temperature Range	-40 °C to +85 °C
Mounting Options	DIN Rail, surface mount
Time Delay Curves	1, 2
Endurance	10000 operations - 1500 electrical at rated current and voltage (IEC 60947-2) 6000 electrical operations (UL 1077)
Dielectric Strength	1480 V (single pole) / 1830 V (multi pole), 50 Hz for one minute after testing
Weight	102 g per pole (depending on rating) (unpacked)
Humidity	35 to 85% relative
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Shock	16 G (IEC 60068-2-27)
Vibration	2 G (IEC 60068-2-6) (sinusoidal wave)
Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28
Toxicity	F1 - Smoke index of ≤ 20 which determines the fume class
Pollution Degree	PD2 - Normally only non-conductive pollution occurs. Temporary conductivity caused by condensation is to be expected.

Breaker QF	Wire Size mm ² (IEC)	Wire Gauge (UL)	Torque (IEC)	Torque (UL)	Comments
1 Pole & 2 Pole	0.75 - 35 mm ²	18 - 2 - AWG	2.5 Nm	20 in-lb	Pozidriv #2 Combi head
3 Pole & 4 Pole	0.75 - 35 mm ²	-	2.5 Nm	-	Pozidriv #2 Combi head

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