

QY - Series Miniature Circuit Breakers



DIN Mount
1 pole



DIN Mount
2 pole



DIN Mount
3 pole

Features

- DC circuit breaker
- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- VDE, EAC and CCC approved, CE certified
- UL listed (UL 489 A)
- Ratings 0.1 to 63 A (1 & 2 pole), 3 pole parallel (150 A maximum), 4 pole parallel (200 A maximum)
- Optional shunt trip (approvals pending)
- Wide range of time delays and operating currents
- Precision tripping characteristics
- Ultra compact – 13 mm wide module
- Trip indication with mid-trip handle
- Reset immediately after overload
- DIN mount product in grey shells
- 80V DC devices are reverse feedable
- 125 / 250 / 600V DC devices are polarity sensitive
- Suitable to use for electrical isolation

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

- DC branch circuit protection (UL 489A, IEC / EN 60947-2)
- Telecom / datacom equipment
- UPS equipment
- Alternative energy equipment
- Battery protection & switching
- Telecommunication DC power distribution
- Railway signalling equipment

Optional Accessories

- Handle lock
- Surface mounting clips
- Busbar

Approvals



QY - Series Miniature Circuit Breakers

Technical Data

Product Type	Circuit Breaker							
Approvals	IEC / EN 60947-2, VDE, CE, EAC							
Number of Poles	1	2	2 parallel	2 parallel	3 parallel	4 parallel	2 series	1 pole plug-in
Operating Voltages	80 V DC, 125 V DC		80 V DC	125 V DC	80 V DC		250 V DC	80 V DC
Minimum Current Rating	0.1 A	0.1 A	60 A	30 A	110 A	200 A	0.1 A	0.1 A
Maximum Current Rating	63 A	50 A	100 A	100 A	150 A	200 A	50 A	50 A
Interrupting Capacity	10 kA							

Product Type	Circuit Breaker								
Approvals	UL 489A								
Number of Poles	1	2	2 parallel	2 parallel	3 parallel	4 parallel	2 series	4 series	1 pole plug-in
Operating Voltages	80 V DC, 125 V DC		80 V DC	125 V DC	80 / 125 V DC	80 V DC	250 V DC	600 V DC	80 V DC
Minimum Current Rating	0.1 A	0.1 A	30 A	20 A	110 A	200 A	0.1 A	0.1 A	0.1 A
Maximum Current Rating	63 A	50 A	100 A	100 A	150 A	200 A	50 A	20 A	50 A
Interrupting Capacity	10 kA								

Approvals	Circuit Breaker					
Approvals	CCC					
Number of Poles	1	2	2 parallel	3 parallel	4 parallel	1 pole plug-in
Operating Voltages	80 V DC					
Minimum Current Rating	0.1 A	0.1 A	30 A	110 A	200 A	0.1 A
Maximum Current Rating	63 A	50 A	100 A	150 A	200 A	50 A
Interrupting Capacity	10 kA					

Auxiliary Module	
Auxiliary Switch	DIN and CBI Mini Rail mounted

QY - Series Miniature Circuit Breakers

Technical Data

Product Type	QY
Operating Temperature Range	-40 °C to +85 °C
Mounting Options	DIN Rail, surface mounting clip, plug-in terminal
Time Delay Curves	1, 9, U2, U3, OP
Endurance	10000 operations - 1500 electrical at rated current and voltage (IEC 60947-2) 1000 electrical operations (UL 489A)
Dielectric Strength	1480 V (single pole) / 1830 V (multi pole), 50 Hz for one minute after testing
Weight	102 g per pole, 160 g with auxiliary (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 QY	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
2 Pole Parallel	50 mm ²	14 - 1/0 - AWG	3.2 Nm	28 in-lb	Bridge terminal
3 Pole Parallel	95 mm ²	14 - 5/0 - AWG	5.6 Nm	50 in-lb	Bridge terminal
4 Pole Parallel	95 mm ²	14 - 5/0 - AWG	5.6 Nm	50 in-lb	Bridge terminal

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