The QA17 type earth leakage device is available as a circuit breaker and as a switch. As a circuit breaker it has the suffix A attached to it QA17A and as a switch it has the suffix C attached to it QA17C.



QA17A Dual Mount

Features

- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- VC 8035 compliant
- VDE and CE certified
- Ratings 5 A to 63 A
- Earth leakage sensitivity 30 mA, Type A
- Single pole plus switched neutral earth leakage protection
- Switch versions fitted with short circuit protection
- Available in various currents ratings
- Precision tripping characteristics
- Compact 26 mm wide module
- Trip indication with mid-trip position
- Can be switched on immediately after tripping
- Suitable to use for electrical isolation
- Designed for easier installation onto busbar

Auxiliary Switch, Trip Alarm & Combination: Features

- Factory fitted
- · Attached to right hand side of the circuit breaker
- Compact 6.5 mm width
- Auxiliary switch
- Auxiliary switch + trip alarm
- Trip alarm
- AC and DC voltages
- UL 489 listed (auxiliary switch: 6 A 250 Vac, 0.5 A 80 Vdc)
- IEC 60947-5-1 approved (Auxiliary Switch: 6 A 240 Vac, 0.5 A 110 Vdc; trip alarm: 6 A 240 Vac, 0.5 A 110 Vdc)







Hydraulic-Magnetic Circuit Breakers 100% rated, unaffected by ambient temperature



QA17C Dual Mount

Applications

 Residential and commercial applications requiring high sensitivity earth leakage protection from electrical shock and fire hazards

(Hi]electric

- Earth leakage protection (IEC / EN 60947-2)
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Railway signalling equipment
- Industrial equipment

Optional Accessories

- Rear studs (factory fitted)
- Handle lock QFAP001
- Surface mounting clips SAAX000
- Busbar 2121380
- Escutcheon blank SFEB000
- Safety blank SAEB000



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Technical Data

Product Type	QA17A	QA17C			
Approvals	VC 8035				
Number of Poles	2 (1+N)	2 (1+N)			
Standard Ampere Ratings	5 to 63 A	40 and 63 A			
Sensitivity	30 mA	30 mA			
Rated Voltage	230 V	230 V			
Rated S/C Withstand Capacity (Icw)	-	2.5 kA / 50 ms			
Short Circuit Breaking Capacity (Ics)	-	-			
Ultimate S/C Breaking Capacity (Icu)	2.5 kA	-			

Product Type	QA17A	QA17C				
Approvals	IEC / EN 60947-2, CE					
Number of Poles	2 (1+N)	2 (1+N)				
Standard Ampere Ratings	5 to 63 A	40 and 63 A				
Sensitivity	30 mA	30 mA				
Rated Voltage	240 V	240 V				
Rated S/C Withstand Capacity (Icw)	-	-				
Short Circuit Breaking Capacity (Ics)	1.5 kA	-				
Ultimate S/C Breaking Capacity (Icu)	3 kA	-				

Verify approvals for specific ratings in accordance with the relevant test certificates.

Auxiliary Module					
Auxiliary Switch	DIN and CBI mini rail mounted				
Trip Alarm	CBI mini rail mount only				
Auxiliary Switch + Trip Alarm	CBI mini rail mount only				

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QA17 - Series Earth Leakages

Technical Data

Product Type	QA17		
Ambient Operating Temperature	-40 °C to +85 °C		
Mounting Options	Dual mounting (DIN & mini) with accessories		
Time Delay Curves	2 (A version only)		
Endurance	10000 operations - 1500 electrical (IEC 60947-2 Clause 7.2.4.4)*		
Dielectric Strength	1480 V (single pole) / 1830 V (multi pole), 50 Hz for one minute after testing		
Rated Impulse Withstand Voltage	4 kV (IEC 60947-2 Clause 8.3.3.2)		
Weight	262 g - QA17C, 265 g - QA17A (unpacked)		
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.		
Shock	10 G (IEC 60068-2-27)		
Vibration	1.5 G (IEC 600068-2-27) (sinusoidal wave)		
Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of \ge 28		
Toxicity	F1 - Smoke index of \leq 20 which determines the fume class		
Pollution Degree	PD2 - Normally only non-conductive pollution occurs. Temporary conductivity caused by condensation is to be expected.		

* Refer to the standard for details

Earth Leakage	Wire Size mm ² (IEC)	Torque (IEC)	Comments
1±N	0.75 - 35 mm²	2.5 Nm	Pozidriv #2
1+N	0.75 - 35 1111-	2.5 NIII	Combi head



Long Code

Example Code: Q-A-17-A---DM-2-63A-30mA-240V----

Group	1	2	3	4	5	6	7	8	9	10	11	12	13
Requirement	Q Frame	Туре А	1 pole + N	Overload	No auxiliary switch or additional pole	Dual mount	Medium delay curve 2	Current rating 63 A	Sensitivity 30 mA	Voltage 240 Vac	No special termination	Future use	Customer specific
Long Code	Q	А	17	А	-	DM	2	63A	30 mA	240 V	-	-	-

Ordering Information

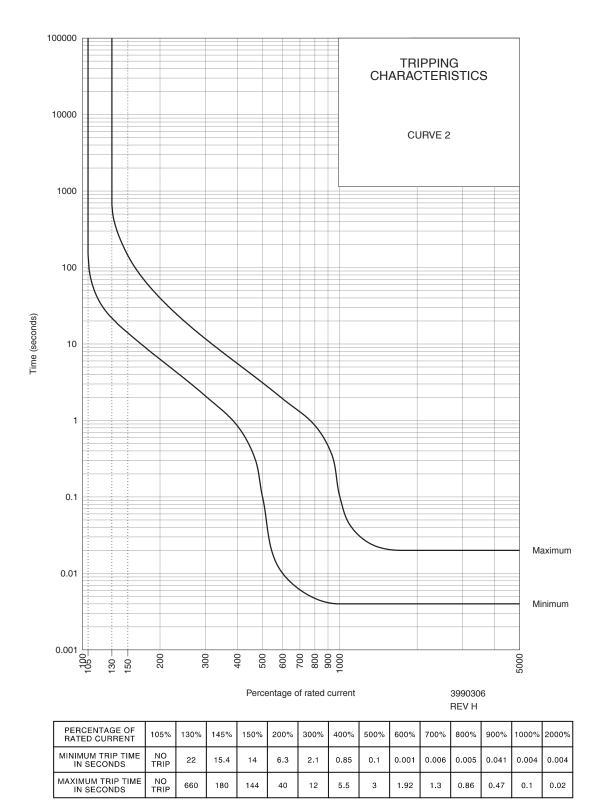
Group 1:	Code	Description	Comment	ts		
Frame Type	Q	26 mm wide earth leakage				
Group 2:	Code	Description	Comment	ts		
Product Type	A	240 Vac	2.5 kA (VC 8035) / 3 kA (I	EC / EN 60947-2)		
Group 3:	Code	Description	Comment	ts		
No of Poles	17	Single pole plus switched neutral (1+N)	QA17			
Group 4:	Code	Description	Commen	ts		
E-L Type	Α	Overload	White and greer	n handle		
	С	Switch disconnector	Green handles			
Group 5:	Code	Description	Comments			
Auxiliary / Additional Pole	-	Not applicable	Use this code if no a	uxiliary used		
	A	Auxiliary switch (1 x aux switch in 1 module)	6.5 mm module fitted on	right-hand side		
	Т	Trip alarm (1 x trip alarm in 1 module)	6.5 mm module fitted on	right-hand side		
	AT	Auxiliary switch + trip alarm (in 1 module)	6.5 mm module fitted on	right-hand side		
Group 6:	Code	Description	Comment	ts		
Mounting	DM	Dual mount	Dual mount supplied in black body only - 57 mm escutcheon			
Group 7:	Code	Description	Instantaneous Trip Point (x In) Comments			
Time Delays	-	Not applicable	Switch	Green handle		
	2	Medium time delay	5 – 10	White & Green handle		
Group 8:		Code / Description	Commen	ts		
Current Ratings		5, 10, 15, 16, 20, 25, 30, 32, 40, 50, 60, 63 A	QA17A Ratings available vary depending on certification * Other ratings are available as special orders. Check availability.			
		40, 63 A	QA17C Ratings available vary depending on certification * Other ratings are available as special orders. Check availability.			
Group 9:	Code	Description	Comments			
Sensitivity	30 mA	30 mA	Standard			
Group 10:	Code	Description	Comments			
Voltage	240 V	240 Vac				
Group 11:	Code	Description	Comments			
Special Termination	-	Box terminals (standard)				
	S	Rear connected stud (factory fitted)	Factory fitted. Front mount			
Group 12:	Code	Description	Comments			
	-	For futur	e use (-)			
Group 13:	Code	Description	Comments			
Customer Specific	-	Not applicable	For future use			

For options not listed, please contact CBI

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QA17 - Series Earth Leakages

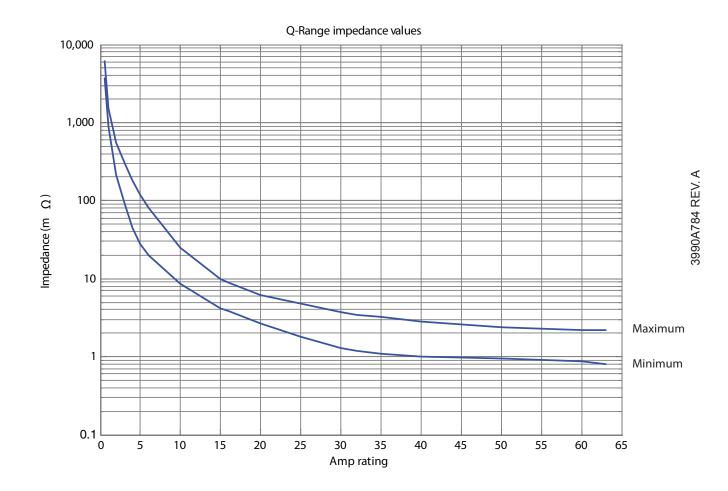
Time Delay Curves



* The published time delay curves are generated at 30°C ambient temperature with the circuit breaker mounted in the up-right position. The "must hold", "must trip" and "instantaneous trip" current values are not affected by temperature, although delay time for the other operating current values may have to be adjusted using the temperature compensation curve which is available on request.



Internal Impedance vs Current Rating

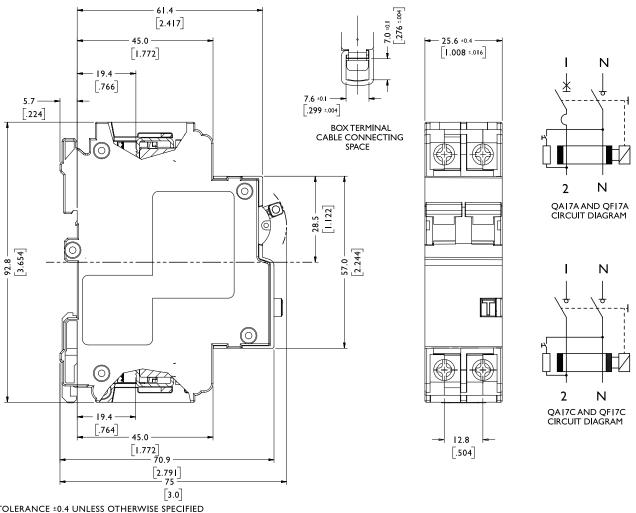


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Helectric low voltage

QA17 - Series Earth Leakages

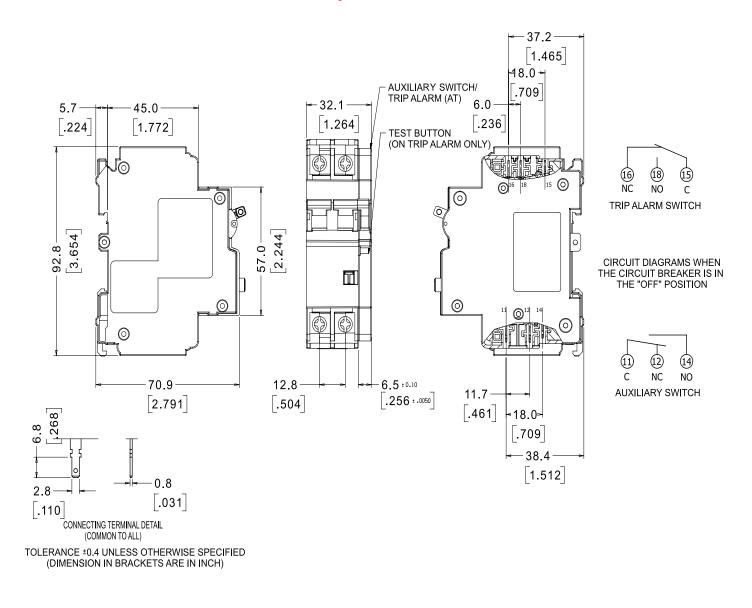
Outline Dimensions: Dual Mount



TOLERANCE ±0.4 UNLESS OTHERWISE SPECIFIED (DIMENSION IN BRACKETS ARE IN INCH)



Outline Dimensions: Dual Mount and Auxiliary Switch



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