

The QA17 type earth leakage device is available with or without overload protection as a circuit breaker and as a switch. The overload version has the suffix A and the version without overload has the suffix C.



QA17A Dual (DIN & CBI Mini rail) mount



Dual (DIN & CBI Mini rail) 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

## **Applications**

- Residential and commercial applications requiring high sensitivity earth leakage protection from electrical shock and fire hazards
- Earth leakage protection (DIN / EN 60947-2, Annexure B, Annexure L))
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment

# **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 unlisted (auxiliary switch: 6 A 240 Vac, 0.5 A 110 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)

VC 8035

### **Optional Accessories**

- Handle lock QFAP001
- Surface mounting clips SAAX000
- Busbar 2121380
- Escutcheon blank SFEB000
- · Safety blank SAEB000



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



## **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 Vac	230 Vac				
Rated S/C Withstand Capacity (Icw)	-	2.5 kA / 50 ms				
Ultimate S/C Breaking Capacity (Icu)	2.5 kA	-				

Product Type	QA17A	QA17C				
Approvals	DIN / EN 60947-2					
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 Vac	240 Vac				
Rated Conditional S/C Current (Icc)	-	3 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				



## **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 ≥ 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.		

<sup>\*</sup> Refer to the standard for details

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



## **Long Code**

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

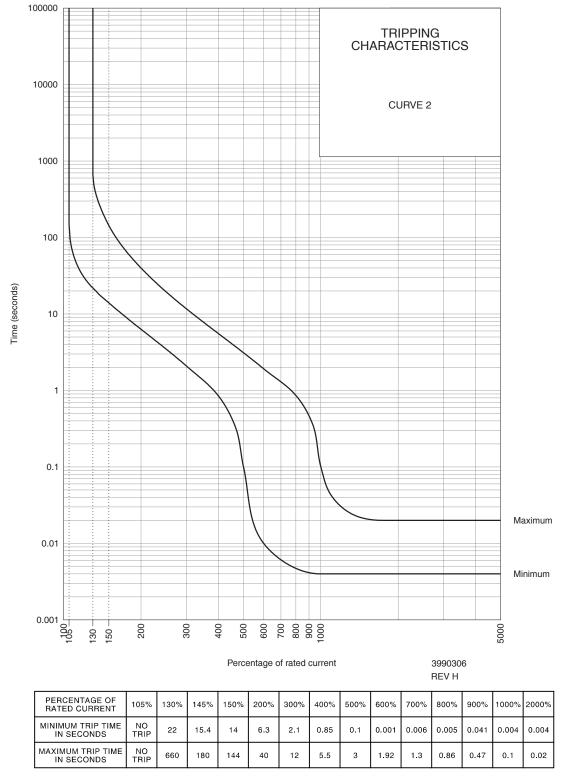
Group		2	3		5	6		8	9		11	12	13
Requirement	Q Frame	Type A	1 pole + N	Overload	No auxiliary switch or additional pole	Dual mount	Medium delay curve 2	Current rating 63 A	Sensitivity 30 mA	Voltage 240 Vac	No special termination	Future use	Customer specific
Long Code	Q	Α	17	Α	-	DM	2	63A	30 mA	240 V	-	-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

## **Ordering Information**

Group 1:	Code	Description	Commer	its			
Frame Type	Q	26 mm wide earth leakage					
Group 2:	Code	Description	Commer	its			
Product Type	Α	240 Vac	2.5 kA (VC 8035) / 3 kA (	DIN / EN 60947-2)			
Group 3:	Code	Description	Commer	its			
No of Poles	17	Single pole plus switched neutral (1+N)	QA17				
Group 4:	Code	Description	Comments				
E-L Type	Α	Overload	White and gree	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			
	Α	Auxiliary switch (1 x aux switch in 1 module)	6.5 mm module fitted or	n right-hand side			
	Т	Trip alarm (1 x trip alarm in 1 module)	6.5 mm module fitted or	n right-hand side			
	AT	Auxiliary switch + trip alarm ( in 1 module)	6.5 mm module fitted or	n right-hand side			
Group 6:	Code	Description	Commer	ts			
Mounting	DM	Dual (DIN & Mini rail) mount	Dual mount supplied in black body	y only - 57 mm escutcheon			
Group 7: Time Delays	Code	Description	Instantaneous Trip Point (x In)	Comments			
Tillie Delays	-	Not applicable	-	Time delay not applicable for the switch			
	2	Medium time delay	5 – 10				
Group 8:		Code / Description	Commer	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	230 V	230 Vac	VC 8035				
	240 V	240 Vac					
Group 11: Special	Code	Description	Comments				
Termination	-	-	Box terminals (standard)				
	S	Rear connected stud	Factory fitted				
Group 12:	Code	Description	Comments				
	-	For future use (-)					
Group 13: Customer	Code	Description	Commer	ts			
Specific	-	Not applicable	For future use				



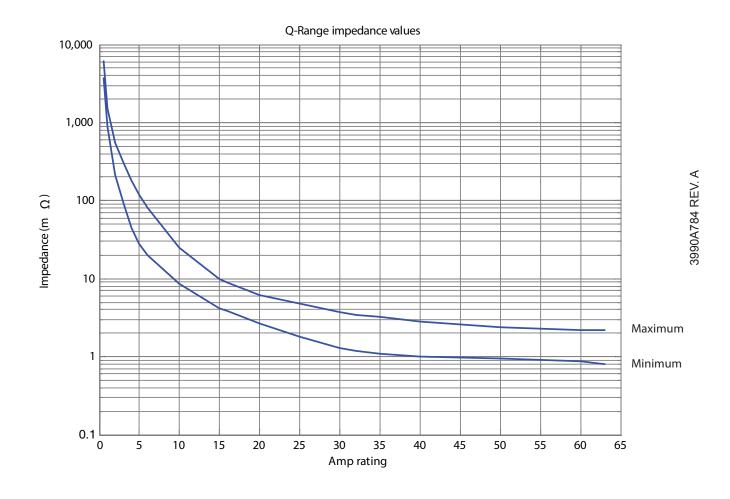
## **Time Delay Curves**



<sup>\*</sup> 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.

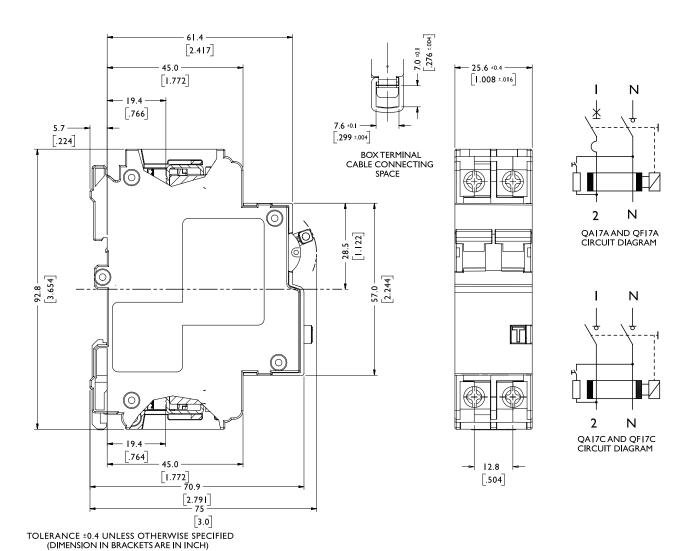


## **Internal Impedance vs Current Rating**



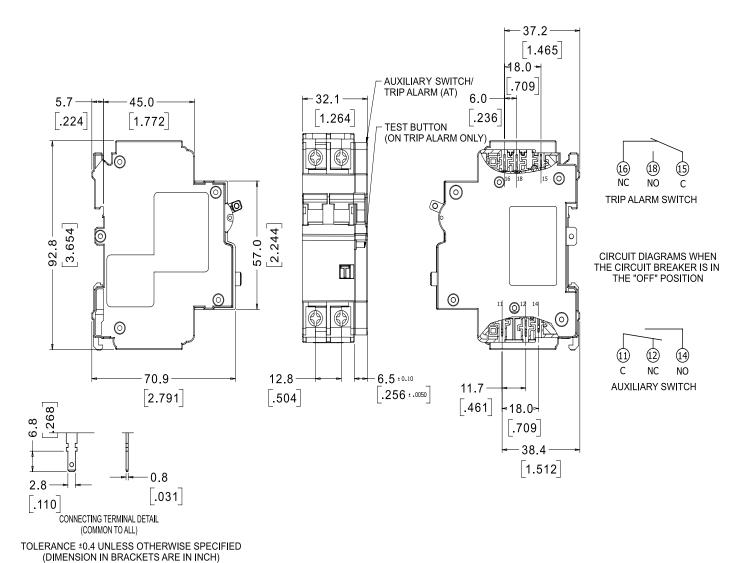


**Outline Dimensions: Dual Mount** 





## **Outline Dimensions: Dual Mount and Auxiliary Switch**



**QA17-SERIES-DAT** 

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