

The QF17 is a 6 kA earth leakage device, available as a circuit breaker as well as switch. It is black in colour and can be mounted on DIN Rail and the CBI Mini Rail. Its front escutcheon is 57 mm.



OF17A **Dual Mount**



OF17C **Dual Mount**

Features

- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- VC 8035 compliant
- VDE and CCC approved, CE certified
- UL recognised (UL 1053, UL 1077)
- Ratings 5 to 63 A
- Earth leakage sensitivity 30 mA
- Single pole plus switched neutral earth leakage protection
- Switch versions fitted with short circuit protection
- Available in various currents and time delays
- Precision tripping characteristics
- Compact 26 mm wide module
- Trip indication with mid-trip position
- Reset immediately after overload
- Suitable to use for electrical isolation
- Shell designed for easier installation onto busbar

Auxiliary Switch, Trip Alarm & Combo: Features

- Auxiliary switch
- Auxiliary switch + trip alarm
- Trip alarm
- AC and DC voltages
- UL 489 listed (auxiliary switch: 6 A 250 V AC, 0.5 A 80 V DC)
- IEC 60947-5-1 approved (auxiliary switch: 6 A 240 V AC, 0.5 A 110 V DC; trip alarm: 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

- Residential and commercial applications requiring high sensitivity earth leakage protection from electrical shock and fire hazards
- 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
- Surface mounting clips
- Busbar
- Escutcheon blank
- Safety blank









Technical Data

Product Type	QF17A	QF17C	
Approvals	VC 8	3035	
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 Interrupting /	5 kA	-	
Withstand Capacity	-	5 kA	
Time Delay Curves	2	-	

Product Type	QF17A	QF17C				
Approvals	IEC / EN 60947-2, VDE, 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 Interrupting /	6 kA	-				
Withstand Capacity	-	6 kA				
Time Delay Curves	2	-				

Product Type	QF17A	QF17C			
Approvals	UL 1053, UL 1077				
Number of Poles	2 (1+N)	2 (1+N)			
Standard Ampere Ratings	5 to 63 A	40 and 63 A			
Sensitivity	22 mA	22 mA			
Rated Voltage	240 V	240 V			
Rated Interrupting /	5 kA	-			
Withstand Capacity	-	5 kA			
Time Delay Curves	2	-			

Product Type	QF17A	QF17C		
Approvals	Co	CC		
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 Interrupting /	6 kA	-		
Withstand Capacity	-	6 kA		
Time Delay Curves	2	-		

Auxiliary Module				
Auxiliary Switch DIN and CBI Mini Rail mounted				
Trip Alarm	CBI Mini Rail mount only			
Auxiliary Switch / Trip Alarm Combo	CBI Mini Rail mount only			



Technical Data

Product Type	QF17		
Operating Temperature Range	-40 °C to +85 °C		
Mounting Options	Dual mounting (DIN & Mini), surface mount, front mount		
Time Delay Curves	2 (A version only)		
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	264 g - QF17C, 265 g - QF17A (unpacked)		
Humidity	35 to 85% relative		
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.		
Shock	16 G (IEC 600068-2-27)		
Vibration	2 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.		

Earth Leakage	Wire Size mm² (IEC)	Torque (IEC)	Comments
1+N	0.75 25 mm²	2.5 Nm	Pozidriv #2
TTIN	0.75 - 35 mm²	2.5 INIII	Combi head



Ordering Information

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

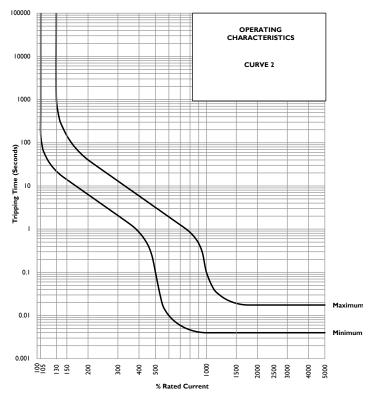
Group	1	2	3	4	5	6	7	8	9	10	11	12
Requirement	Q Frame	Туре F	1 pole + N	Overload	No Auxiliary Switch	Dual Mount	Medium delay curve 2	Current Rating 63 A	Sensitivity 30 mA	Voltage 240 V AC	No special termination	Future use
Long Code	Q	F	17	Α	-	DM	2	63A	30mA	240V	-	-

Group 1:	Code	Description	Commen	ts		
Frame Type	Q	26 mm wide earth leakage				
Group 2:	Code	Description	Commen	ts		
Product Type	F	240 V AC, 5 / 6 kA	5 kA (VC 8035) / 6 kA (IEC / EN 60947-2, CCC, UL 1053, UL 1077)			
Group 3:	Code	Description	Comments			
No of Poles	17	Single pole plus switched neutral (1+N)	QF17			
Group 4:	Code	Description	Comments			
E-L Type	Α	Overload (auto tripping)	White and green	n handle		
	С	Switch disconnector	Green hand	dle		
Group 5:	Code	Description	Commen	ts		
Auxiliary / Additional	-	Not applicable	Use this code if no a	uxiliary used		
Pole	Α	Auxiliary switch (1 x Aux in 1 module)	6.5 mm module fitted on	right-hand side		
	AA	Double auxiliary switch (2 x Aux switch in 1 module)	6.5 mm module fitted on right-hand side			
	Т	Trip alarm (1 \times 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	Comments			
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	2	Medium time delay	5 – 10	White handle		
Group 8:		Code / Description	Commen	ts		
Current Ratings	5, 10, 15, 16, 20, 25, 30, 32, 40, 50, 60, 63 A		QF17A Ratings available vary depending on certification * Other ratings are available as special orders. Check availability.			
		40, 63 A	QF17C Ratings available vary depend * Other ratings are available as speci			
Group 9:	Code	Description	Comments			
Sensitivity	30mA	30 mA	Standard			
Group 10:	Code	Description	Comments			
Voltage	240 V	240 V AC				
Group 11:	Code	Description	Commen	ts		
Special Termination	-	No special termination				
Terrimation	S	Rear connected stud (factory fitted)	Factory fitt	ed		
Group 12	Code	For futu	ure use (-)			

For options not listed, please contact CBI

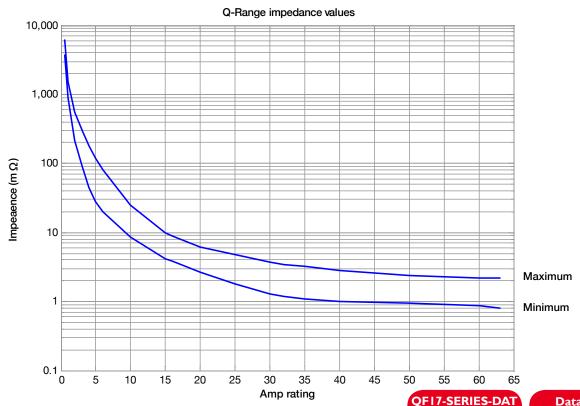


Time Delay Curves



^{*} 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.

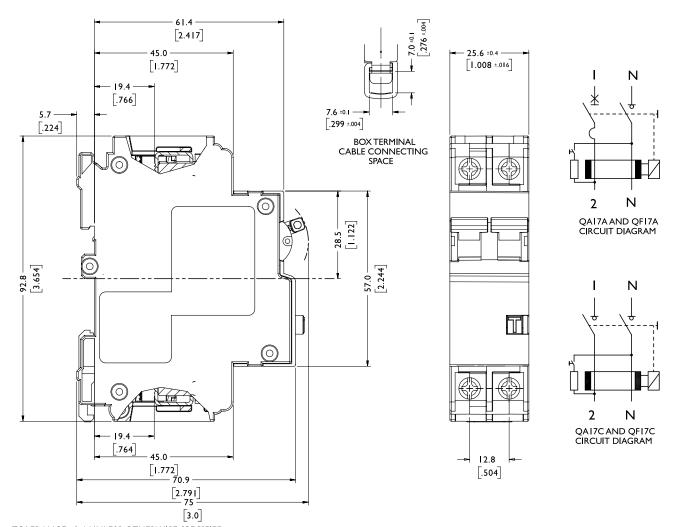
Internal Impedance vs Current Rating



OCT 2016



Outline Dimensions: Dual Mount



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

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