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.



QF17A Dual Mount

Features

- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- VC 8035 compliant
- VDE, CCC and AS/NZS 60947-2 approved, CE certified
- UL recognised (UL 1053)
- 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
- Shell designed for easier installation onto busbar

Auxiliary Switch, Trip Alarm & Combination: Features

- Factory fitted
- Attached to right hand side of circuit breaker
- Compact 6.5 mm width
- Auxilary 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)



(IEC / EN 60947-2)





QF17C Dual Mount

Applications

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

[H] 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



AS/NZS 60947-2



QF17-SERIES-DAT Data Sheet REV. B Page 1 of 8 SEPTEMBER 2021



Technical Data

Product Type	QF17A	QF17C			
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)	-	5 kA / 50 ms			
Short Circuit Breaking Capacity (Ics)	2.5 kA	-			
Ultimate S/C Breaking Capacity (Icu)	5 kA	-			

Product Type	QF17A	QF17C			
Approvals	AS/NZS 60947-2, 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)	-	6 kA			
Short Circuit Breaking Capacity (Ics)	3 kA	-			
Ultimate S/C Breaking Capacity (Icu)	6 kA	-			

Product Type	QF17A	QF17C		
Approvals	UL 1	053		
Number of Poles	2 (1+N)	2 (1+N)		
Standard Ampere Ratings	1 to 63 A	63 A		
Sensitivity	22 mA	22 mA		
Rated Voltage	240 V	240 V		
Rated S/C Withstand Capacity (Icw)	-	5 kA		
Short Circuit Breaking Capacity (Ics)	5 kA -			
Ultimate S/C Breaking Capacity (Icu)	-	-		

Product Type	QF17A	QF17C		
Approvals	GB 14	048.2		
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 V	240 V		
Rated S/C Withstand Capacity (Icw)	-	6 kA		
Short Circuit Breaking Capacity (Ics)	3 kA	-		
Ultimate S/C Breaking Capacity (Icu)	6 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			

Data Sheet Page 2 of 8 QF17-SERIES-DAT REV. B SEPTEMBER 2021

Technical Data

Product Type	QF17		
Ambient Operating Temperature	-40 °C to +85 °C		
Mounting Options	Dual mounting (DIN & mini), surface mount, front mount		
Endurance	10000 operations - 1500 with current, 8500 without current (IEC 60947-2, clause 7.2.4.2)*		
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 8.3.32)		
Weight	264 g - QF17C, 265 g - QF17A (unpacked)		
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.		
Shock	10 G (IEC 60068-2-27)		
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 \ge 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.		

* Refer to the standard for details

Earth Leakage	Wire Size mm ² (IEC)	Torque (IEC)	Comments
Main Terminals	0.75 - 25 mm²	2.5 Nm	Pozidriv #2 Combi head



Long Code

Example Code: Q-F-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 F	1 pole + N	Overload	No auxiliary switch	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	F	17	А	-	DM	2	63A	30mA	240V	-	-	-

Ordering Information

Group 1:	Code	Description	Commen	ts			
Frame Type	Q	26 mm wide earth leakage					
Group 2:	Code	Description	Comments				
Product Type	F	240 Vac	6 kA				
Group 3:	Code	Description	Comments				
No of Poles	17	Single phase Earth Leakage Unit (1+N)	QF17				
Group 4:	Code	Description	Commen	ts			
E-L Type	A	Overload protection	White and green handle				
	С	Switch disconnector	Green han	dle			
Group 5:	Code	Description	Commen	ts			
Auxiliary / Additional Pole	-	Not applicable	Use this code if no a	uxiliary used			
	A	Auxiliary switch (1 x Aux 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	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	-	Switch		Not applicable			
	2	Medium time delay	5 – 10				
Group 8:		Code / Description	Commen	ts			
Current Ratings		1, 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 depending on certification * Other ratings are available as special orders. Check availability.				
Group 9:	Code	Description	Comments				
Sensitivity	30mA	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 future use (-)					
Group 13:	Code	Description	Commen	ts			
Customer Specific	-	Not applicable	For future use				

For options not listed, please contact CBI

Data Sheet Page 4 of 8

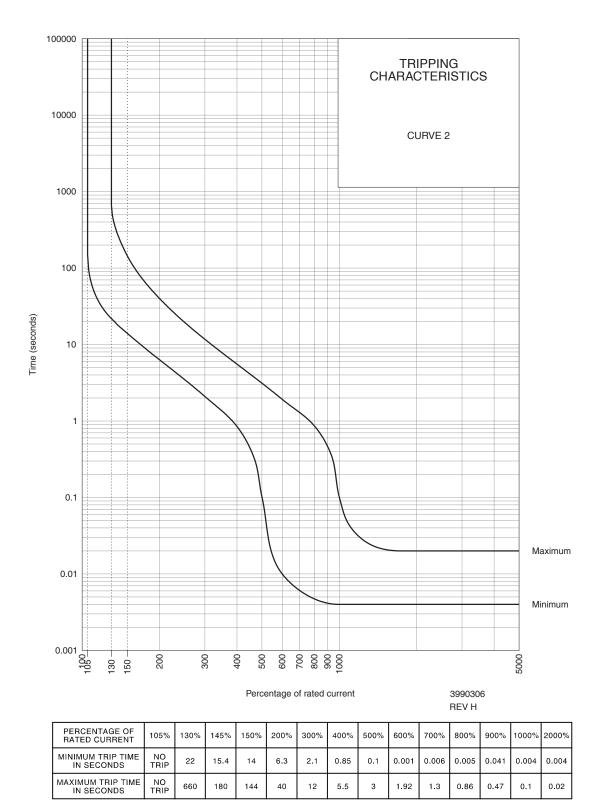
REV. B SEPTEMBER 2021 1907030

QF17-SERIES-DAT

electric low voltage

QF17 - Series Earth Leakages

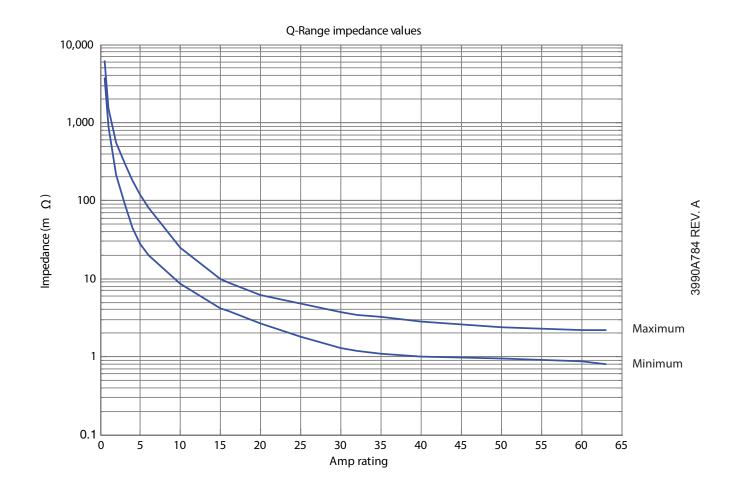
Time Delay Curve



* 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

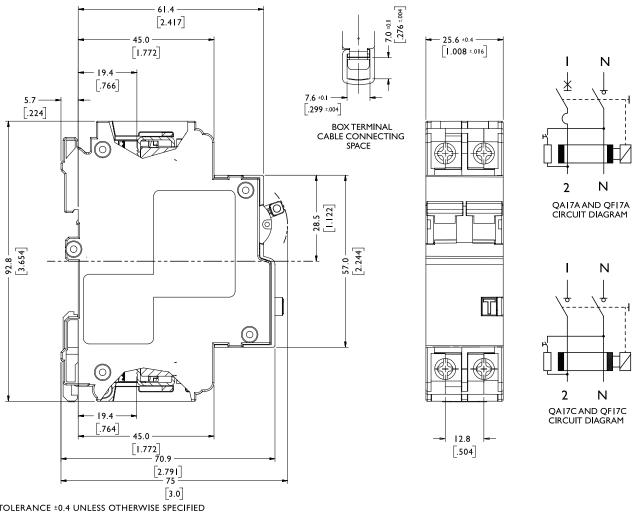


Data Sheet Page 6 of 8 QF17-SERIES-DAT REV. B SEPTEMBER 2021

Helectric low voltage

QF17 - Series Earth Leakages

Outline Dimensions: Dual Mount



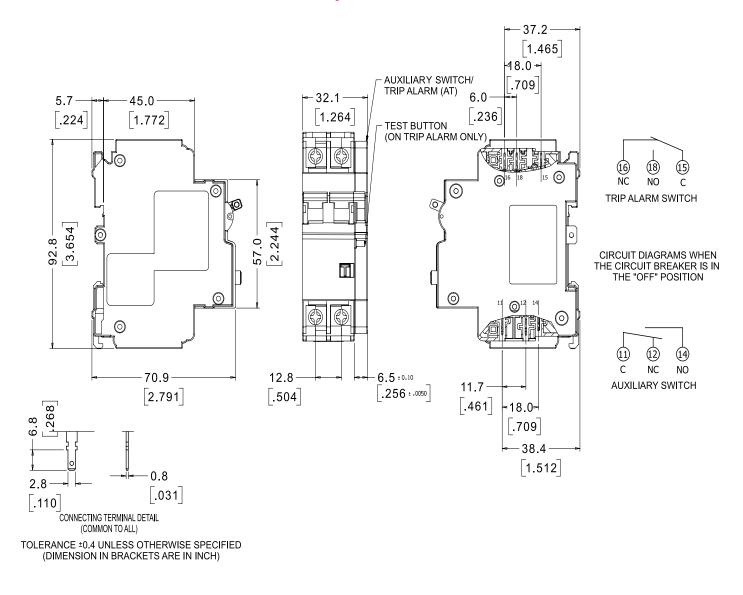
TOLERANCE ±0.4 UNLESS OTHERWISE SPECIFIED (DIMENSION IN BRACKETS ARE IN INCH)

QF17-SERIES-DAT REV. B **SEPTEMBER 2021** 1907030

Data Sheet Page 7 of 8



Outline Dimensions: Dual Mount and Auxiliary Switch



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Data Sheet QF17-SERIES-DAT Page 8 of 8 **REV. B** SEPTEMBER 2021

1907030

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