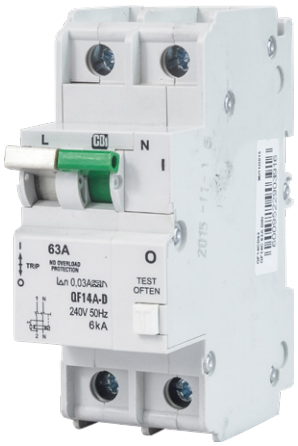
QF14 - Series Earth Leakages

The QF14 is a 6 kA earth leakage device, available as a circuit breaker as well as switch. It is grey in colour and can be mounted on a DIN Rail. Its front escutcheon is 45 mm and fits on to most of the distribution boards for residential applications. It may be used in commercial and industrial applications, on panel boards to be fitted on a DIN rail.



QF14AD
DIN Mount

QF14CD
DIN Mount

Features

- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- VC 8035 compliant
- Ratings 6 to 63 A
- Earth leakage sensitivity 30 mA
- Single pole plus switched neutral earth leakage protection
- Precision tripping characteristics
- Trip indication with mid-trip position
- Reset immediately after overload
- Suitable to use for electrical isolation
- Surface and DIN Rail mounting options, 45 mm escutcheon

Applications

- Residential and commercial applications requiring high sensitivity earth leakage protection from electrical shock and fire hazards
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Railway signalling equipment
- Industrial equipment

Approvals

VC 8035

QF14 - Series Earth Leakages

Technical Data

Product Type	QF14AD	QF14CD
Approvals	VC 8035	
Number of Poles	2 (1+N)	2 (1+N)
Standard Ampere Ratings	6 to 63 A	40 and 63 A
Rated Voltage	240 V AC	240 V AC
Sensitivity	30 mA	30 mA
Rated Interrupting/ Withstand Capacity	6 kA -	- 6 kA
Time Delay Curves	2	-

Product Type	QF14
Operating Temperature Range	-40 °C to +85 °C
Mounting Options	DIN Mount, surface mount
Time Delay Curves	2 (A version only)
Endurance	10000 operations - 1500 electrical at rated current and voltage
Dielectric Strength	1480 V (single pole) / 1830 V (multi pole), 50 Hz for one minute after testing
Weight	260 g (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Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28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 - 35 mm²	2.5 Nm	Pozidriv #2 Combi head

QF14 - Series Earth Leakages

Ordering Information

Example Code: Q-F-14-A--D-2-63A-30mA-240V

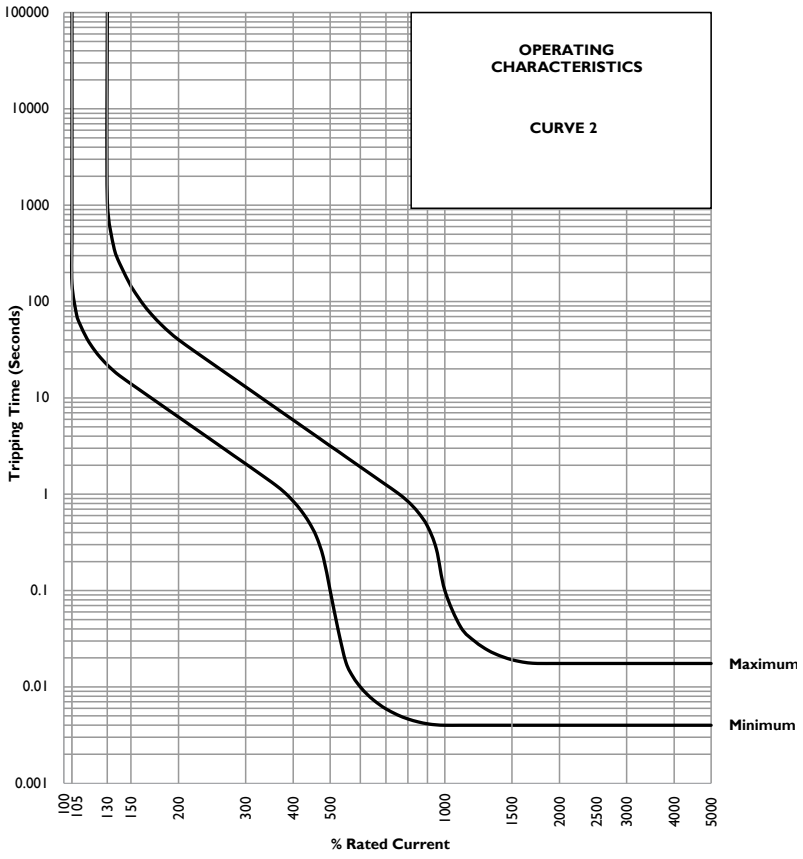
Group	1	2	3	4	5	6	7	8	9	10
Requirement	Q Frame	Type F	1 pole + N	Overload	No Auxiliary Switch	DIN Mount	Medium delay curve 2	Current Rating 63 A	Sensitivity 30 mA	Voltage 240 V AC
Long Code	**Q**	**F**	**14**	**A**	**-**	**D**	**2**	**63A**	**30mA**	**240V**

Group 1: Frame Type	**Code**	**Description**	**Comments**
	Q	36 mm wide earth leakage	
Group 2: Product Type	**Code**	**Description**	**Comments**
	F	240 V AC, 6 kA	5 kA (VC 8035) / 6 kA
Group 3: No of Poles	**Code**	**Description**	**Comments**
	14	Single pole plus switched neutral (1+N)	QF14
Group 4: E-L Type	**Code**	**Description**	**Comments**
	A	Overload (auto tripping)	White and green handle
	C	Switch disconnector / no overload	Green handle
Group 5: Auxiliary / Additional Pole	**Code**	**Description**	**Comments**
	-	Not applicable	
Group 6: Mounting	**Code**	**Description**	**Comments**
	D	DIN mount	DIN mount supplied in grey body only - 45 mm escutcheon
Group 7: Time Delays	**Code**	**Description**	
	2	Medium time delay	Standard
	3	Fast time delay	Special only
	9	Slow time delay	Special only
Group 8: Current Ratings	**Code / Description**		**Comments**
	6, 10, 16, 20, 25, 32, 40, 50, 63 A		QF14AD Ratings available vary depending on certification * Other ratings are available as special orders. Check availability.
	40, 63 A		QF14CD
Group 9: Sensitivity	**Code**	**Description**	**Comments**
	30mA	30 mA	Standard
Group 10: Voltage	**Code**	**Description**	**Comments**
	240 V	240 V AC	

For options not listed, please contact CBI

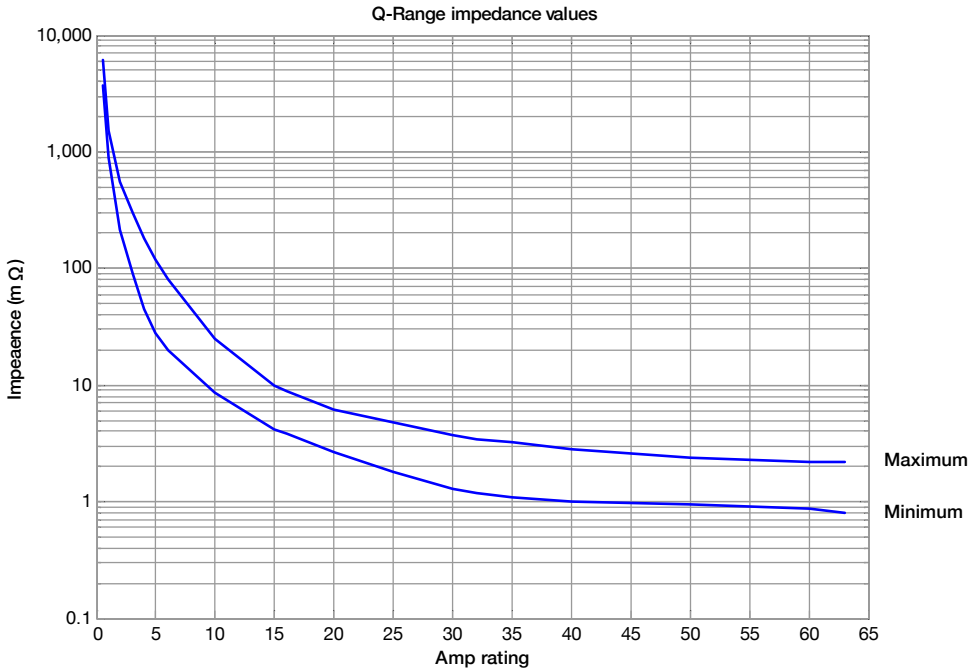
QF14 - Series Earth Leakages

Time Delay Curves



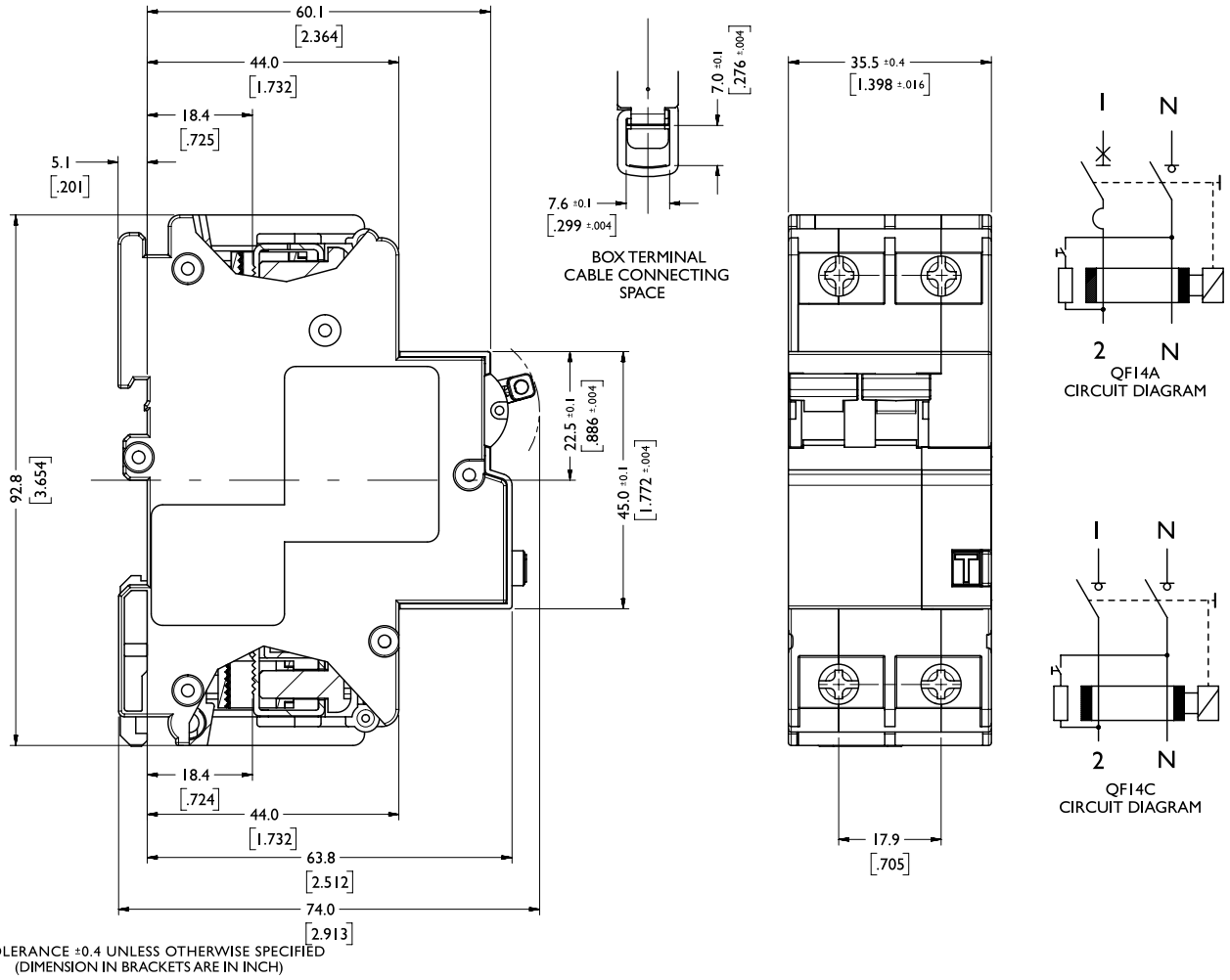
* The published time delay curves are generated at 30°C ambient temperature with the Circuit Breaker mounted in the up-right position. The "must hold", "must trip" and "instantaneous trip" current values are not affected by temperature, although delay time for the other operating current values may have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

Internal Impedance vs Current Rating



QF14 - Series Earth Leakages

Outline Dimensions: Dual Mount



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

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