QF13-Series Standard AC Range

Very compact Hydraulic-Magnetic Circuit Breaker for space-saving distributions and various forms of device protection. The QF13 Standard AC Range consists of modular AC breakers in a rated current range of 2-25A with a 6kA breaking capacity. The QF-frame circuit breakers are IEC, UL and CCC approved. For ratings or configurations not covered in the list, please contact us.

Features

- AC Circuit Breaker
- Hydraulic-Magnetic Technology
- 100% Rating Capability Independent of Ambient Temperature
- VDE and CC approved, CE certified
- UL recognized (UL1077)
- Ratings 2A to 25A
- Precision Tripping
- Ultra Compact – 13mm Width Module
- Trip indication with mid-trip position
- Can be switched on immediately after tripping
- DIN mount, 45mm front escutcheon (Grey)
- Suitable to use for electrical isolation
- Shell designed for easier installation onto busbar

Applications

- AC branch circuit protection (DIN / EN 60947-2)
- Switch disconnector (DIN / EN 60947-3)
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Railway signaling equipment
- Residential equipment
- Industrial equipment

TECHNICAL DATA	
Product Type	Circuit Breaker
Approvals	DIN / EN 60947-2, VDE, CE, EAC, CCC, UL1077
Number of Poles	1,3
Operating Voltages	240VAC, 415VAC
Minimum Current Rating	2A
Maximum Current Rating	25A
Interrupting Capacity	6kA
Mounting Options	-40° C to +85° C
Tripping Curves	Medium time delay 2

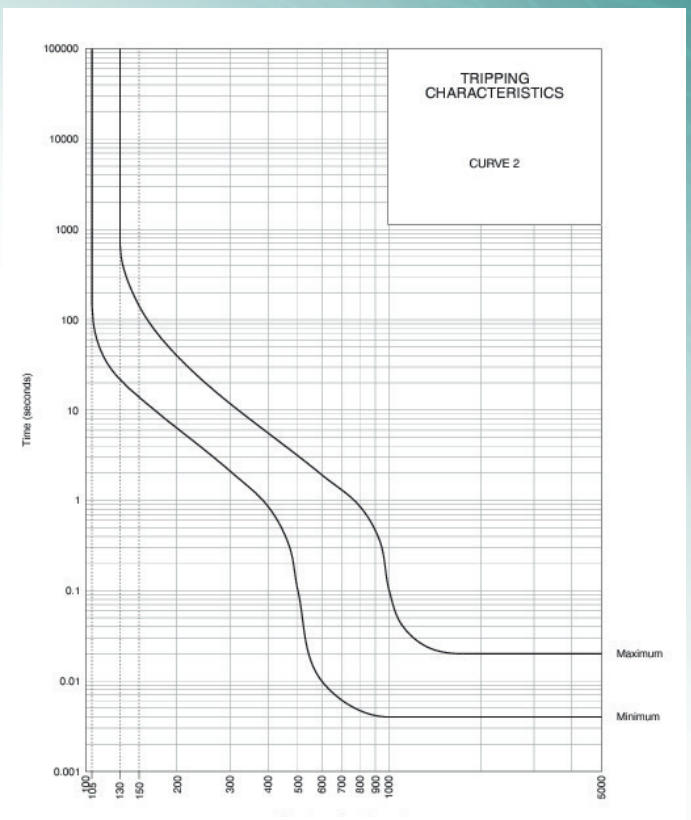
Auxiliary Switch, Trip Alarm & Combo: Features - contact Emcomp

- Handle lock - QFAP001
- Factory fitted
- Attached to right hand side of the circuit breaker
- Compact 6.5 mm width
- UL 489 listed & IEC 60947-5-1
- Industrial equipment

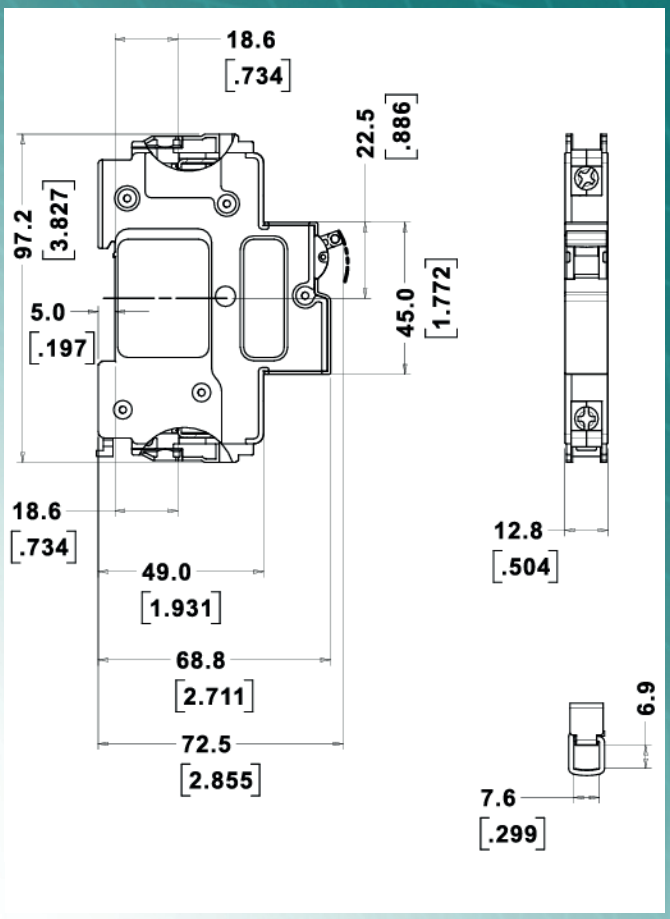
DIN Range, 1 phase Grey, 45mm front escutcheon	
Item No	Rated Current
QFB18202	2A
QFB18204	4A
QFB18206	6A
QFB18210	10A
QFB18216	16A
QFB18220	20A
QFB18225	25A

DIN Range, 3 phase Grey, 45mm front escutcheon	
Item No	Rated Current
QFB38210	10A
QFB38216	16A
QFB38220	20A
QFB38225	25A

Medium Time Delay Curve-2



Outline Dimensions: DIN Mount

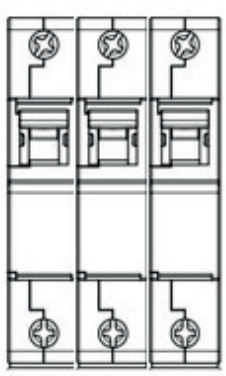
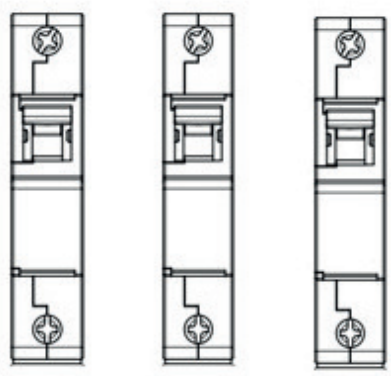


Percentage of rated current

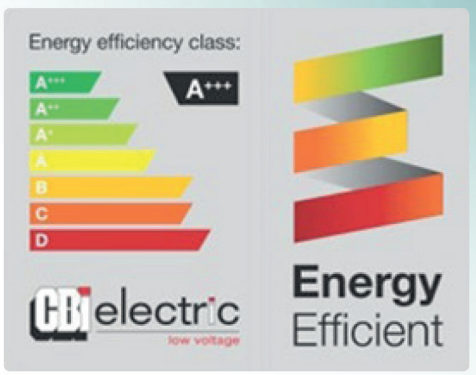
3990526
REV G

PERCENTAGE OF RATED CURRENT	105%	130%	145%	150%	200%	300%	400%	500%	600%	700%	800%	900%	1000%	2000%
MINIMUM TRIP TIME IN SECONDS	NO TRIP	63	45	41	20	7.5	3.8	2.3	1.5	1.01	0.7	0.42	0.1	0.005
MAXIMUM TRIP TIME IN SECONDS	NO TRIP	1800	503	400	96	34	17	10.3	6,8	4.9	3.6	2.8	2.2	0.1

Thermal-Magnetic vs Hydraulic-Magnetic

	Thermal with no spacing	Thermal with spacing	Hydraulic-Magnetic with no spacing
			
Nominal current	16A	16A	16A
Operating at 30° C	10.8A	11.9A	16A
Operating at 45° C	9.6A	10.6A	16A

Due to the Hydraulic-Magnetic technology the MCB will keep rated current regardless of the ambient temperature. No de-rating needed.

Advantages

- Not sensitive to ambient temperatures
- Always keep rated current regardless of temperature, classified from -40° to 85° C
- Dedicated AC and DC products with correct approvals
- Immediate re-set after tripping –no cooling down period
- World wide approval profile
- Possibility to customize products
- Energy efficient alternative –45% lower internal resistance