







2 pole Mini rail mount



3 pole Mini rail mount



3 + N Mini rail mount

#### **Features**

- · AC circuit breaker
- · Hydraulic-magnetic technology
- One, two, three, four pole, 1+N and 3+N
- 100% rating capability, independent of ambient temperature
- VC 8036 compliant (SANS 556-1)
- Ratings 5 to 60 A (subject to certification)
- Precision tripping characteristics
- Ultra compact 13 mm wide module
- Trip indication with mid-trip position
- · Can be switched on immediately after tripping
- Mini rail mount, 57 mm front escutcheon (Black)
- Suitable to use for electrical isolation
- · Shell designed for easier installation onto busbar

#### **Applications**

- · AC branch circuit protection
- Switch disconnector (SANS 60947-3)
- · Telecom / datacom equipment
- Lighting control
- UPS equipment
- · Alternative energy equipment
- Mobile power generation equipment
- Railway signalling equipment
- Residential equipment
- Industrial equipment

#### **Optional Accessories**

- Handle lock QFAP001
- Surface mounting clips SAAX000
- Busbar SABBM54
- 57 mm escutcheon blank 2305608
- 57 mm safety blank SAEB000

VC 8036



#### **Technical Data**

Product Type	Circuit Breaker						
Approvals	VC 8036 (SANS 556-1)						
Number of Poles	1	2 (1+N)	2	3	4 (3+N)		
Operating Voltages		240 Vac	415 Vac				
Minimum Current Rating	5 A			5 A			
Maximum Current Rating	60 A			50 A			
Specific Ratings (Verify Certification)	5, 6, 7, 8, 9, 10, 12, 15, 16, 20, 25, 30, 35, 40, 45, 50, 60 A				O, 60 A		
Ultimate S/C Breaking Capacity (Icu)	2.5 kA						

Product Type	Switch Disconnector						
Approvals	SANS 60947-3						
Number of Poles	1	2 (1+N)	2 (1+N) 3				
Operating Voltages	240 Vac	415 Vac					
Current Rating	63 A						
Rated S/C Withstand Capacity (Icw)	6 kA 50 ms						

Product Type	QA(13)					
Operating Temperature Range	-40 °C to +85 °C					
Mounting Options	Mini rail mount					
Time Delay Curve	3					
Endurance	10000 operations - 1500 electrical at rated current and voltage (IEC 60947-2)					
Dielectric Strength	1480 V (single pole) / 1830 V (multi pole), 50 Hz for one minute after testing					
Weight	102 g per pole, 160 g with auxiliary (depending on rating) (unpacked)					
Humidity	35 to 85% relative					
Altitude	Certification tests done at altitude ≈ 2000 metres.  Will operate at higher altitudes.					
Shock	16 G (IEC 60068-2-27)					
Vibration	1 G (IEC 60068-2-6) (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Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28					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.					

Breaker QA	Wire Size (IEC)	Torque (IEC)	Comments
4 Polo to 4 Polo	0.75 252	2 F NI	Pozidriv #2
1 Pole to 4 Pole	0.75 - 35 mm²	2.5 Nm	Combi head



#### **Long Code**

Example Code: QA----3(13)-MR-3-15A-----

Group	1	2	3	4	5	6	7	8	9	10	11	12	13
Requirement	QA frame	Switch / neutral	Auxiliary + trip alarm	Triple pole	13 mm module width	Mini rail	Short delay curve 3	Current rating 15 A	Future use	Shunt trip	Future use	Special Termian- tion	Customer Specific
Long Code	QA	-	-	3	(13)	-	3	15A	-	-	-		

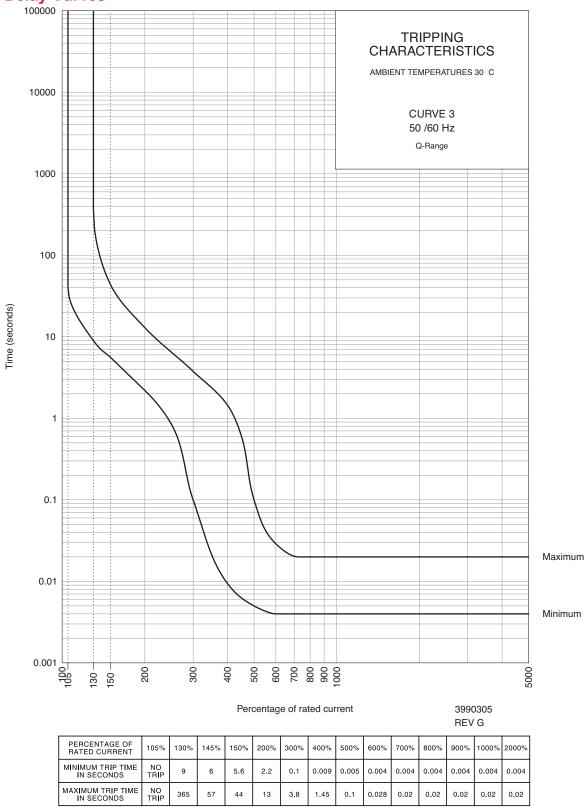
### **Ordering Information**

Group 1:	Code	Description	Co	mments				
Frame Type	QA	13 mm wide miniature circuit breaker						
Group 2:	Code	Description	Comments					
Switch/Neutral	-	Not applicable	Overload poles do not have any further coding					
	S	Switch	Green handle					
	N	Neutral	Green handle					
Group 3:	Code	Description	Comments					
Auxiliary	-	Not applicable	Use this code if no auxiliary used					
Group 4:	Code	Description	Comments					
No of Poles	1	Single pole						
	2	Double pole	2 pc	ole or 1+N				
	3	Triple pole						
	4	Four pole	4 pole or 3+N					
Group 5: Module Width	Code	Description	Comments					
	(13)	13 mm module width						
Group 6: Mounting	Code	Description	Comments					
- · · · · · · · · · · · · · · · · · · ·	-	Mini rail mount		k body only - 57 mm front escutcheon				
Group 7: Time Delays	Code	Description	Instantaneous Trip Point (x In)	Comments				
	3	Short time delay	3 – 5	White handle				
Group 8: Current		Code / Description	Со	mments				
Ratings	5,	, 10, 15, 16, 20, 25, 30, 35, 40, 45, 50, 60 A	Ratings available vary depending on certification  * Other ratings are available as special orders. Check availability.					
Group 9:	Code	Description	Comments					
	-		For	future use				
Group 10:	Code	Description	Comments					
Shunt Trip	-	Not applicable	Use this code if no shunt trip is used					
Group 11	Code	Description	Comments					
	-		For future use					
Group 12:	Code	Description	Comments					
Special Termination	-		For future use					
Group 13: Customer	Code	Description	Comments					
Specific	-		For future use					

For options not listed, please contact CBI for assistance



#### **Time Delay Curves**



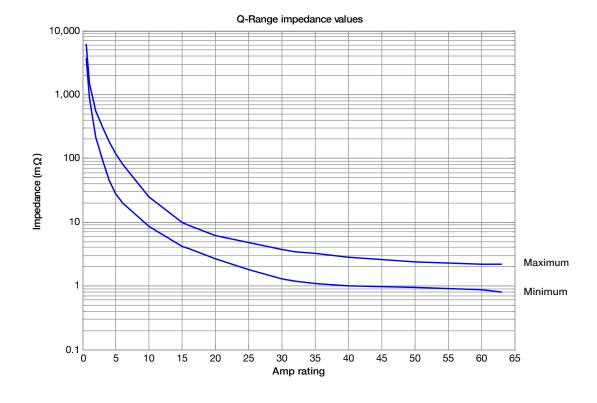
<sup>\*</sup> The published time delay curves are generated at 30 °C ambient temperature with the circuit breaker mounted in the up-right position. The "must hold", "must trip" and "instantaneous trip" current values are not affected by temperature, although delay time for the other operating current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

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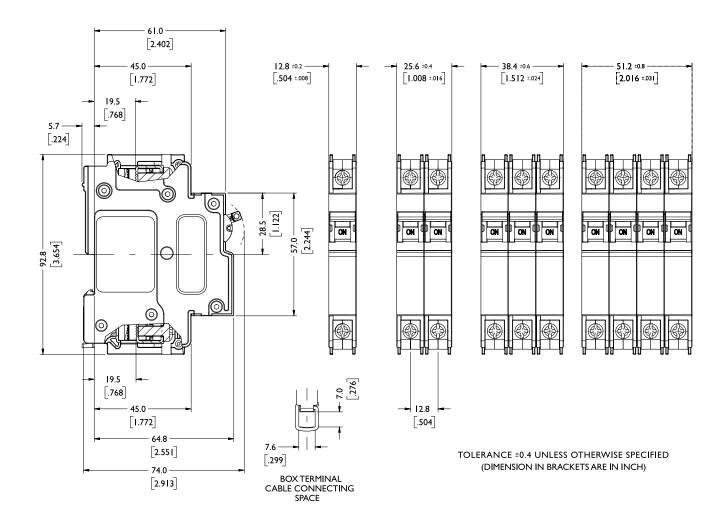


#### **Internal Impedance vs Current Rating**





#### **Outline Dimensions: Mini rail**



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