









**Dual Mount Dual Mount** 3 pole + Auxiliary 3 + N + Auxiliary

1 pole + Auxiliary

### **Features**

- AC circuit breaker
- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- One, two, three, four pole, 1+N and 3+N
- VC 8036 compliant (SANS 556-1)
- VDE, CCC, EAC and CRCC approved, CE certified
- Ratings 0.5 to 60 A (subject to certification)
- Precision tripping characteristics
- Ultra compact 13 mm wide module
- Trip indication with mid-trip position
- Reset immediately after overload
- Dual mount product in grey shells
- Suitable to use for electrical isolation
- Shell designed for easier installation onto busbar

# **Applications**

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

## **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

## **Optional Accessories**

- Handle lock
- Surface mounting clips
- Busbar
- Escutcheon blank
- Safety blank

**Approvals** 

**VC** 8036











Note:





### **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 V AC 415 V AC						
Minimum Current Rating	0.5 A 0.5 A				S A		
Maximum Current Rating	60 A 50 A			Α			
<b>Specific Ratings (Verify Certification)</b>	0.1, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 16, 20, 25, 30, 35, 40, 45, 50, 60 A						
Interrupting Capacity	2.5 kA						

Product Type	Circuit Breaker						
Approvals	IEC / EN 60947-2, VDE, CCC, CRCC, CE, EAC						
Number of Poles	1 2 (1+N) 2 3 4 (3+N)						
Operating Voltages	240 V AC 415 V AC						
Minimum Current Rating	0.5 A						
Maximum Current Rating	50 A						
Specific Ratings (Verify Certification)	0.1, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 16, 20, 25, 30, 35, 40, 45, 50, 60 A						
Interrupting Capacity	3 kA						

Product Type	Switch Disconnector					
Approvals	IEC / EN 60947-3, SANS 60947-3, CCC					
Number of Poles	1 2 3 4					
Operating Voltages	240 V AC 415 V AC					
Current Rating	63 A					

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	QA(13)			
Operating Temperature Range	-40 °C to +85 °C			
<b>Mounting Options</b>	Dual mounting (DIN & Mini), surface mount			
Time Delay Curves	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.			
Aititude	Will operate at higher altitudes.			
Shock	16 G (IEC 60068-2-27)			
Vibration	2 G (IEC 60068-2-6) (sinusoidal wave)			
Flammability	13 - Ignition does not persist at 850 °C after			
Tianimability	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.			
1 onución Degree	Temporary conductivity caused by condensation is to be expected.			

Breaker QA	Wire Size mm² (IEC)	Torque (IEC)	Comments
1 Pole to 4 Pole	0.75 352	2 F NI	Pozidriv #2
	0.75 - 35 mm²	2.5 Nm	Combi head





## **Ordering Information**

### Example Code: QA----3(13)-DM-3-15A-----

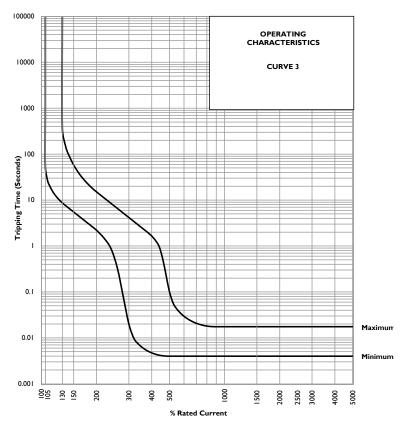
Group	1	2	3	4	5	6	7	8	9	10	11
Requirement	QA Frame	Switch / Neutral	Auxiliary switch + trip alarm	Triple pole	13 mm module width	Dual Mount	Short delay curve 3	Current Rating 15 A	Future use	Shunt trip	Future use
Long Code	QA	-	-	3	(13)	DM	3	15 <b>A</b>	-	-	-

Group 1:	Code	Description	Commen	ts			
Frame Type	QA	13 mm wide Miniature Circuit Breaker					
Group 2:	Code	Description	Commen	ts			
Switch/Neutral	-	Not applicable	Overload poles do not have	ave any further coding			
	S	Switch	Green hand	dle			
	Ν	Neutral	Green hand	dle			
Group 3:	Code	Description	Commen	ts			
Auxiliary	-	Not applicable	Use this code if no auxiliary used				
	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 in 1 module)	6.5 mm module fitted on	right-hand side			
	Т	Trip alarm (1 x trip alarm in 1 module)	6.5 mm module fitted on	right-hand side			
	AT	Auxiliary switch + trip alarm combo (combined in 1 module)	6.5 mm module fitted on	right-hand side			
Group 4:	Code	Description	Commen	ts			
No of Poles	1	Single pole					
	2	Double pole	2 pole or 1+N				
	3	Triple pole					
	4	Four pole	4 pole or 3+N				
Group 5:	Code	Description	Comments				
Module Width	(13)	13 mm module width					
Group 6:	Code	Description	Comments				
Mounting	DM	Dual mount	Dual mount supplied in grey body - 57 mm escutcheon				
Group 7:	Code	Description	Instantaneous Trip Point (x In)	Comments			
Time Delays	3	Short time delay	3 – 5	White handle			
Group 8:		Code / Description	Comments				
Ratings 0.1, 0.5, 1, 2, 3, 4, 5, 10, 15, 16, 20, 25		0.1, 0.5, 1, 2, 3, 4, 5, 10, 15, 16, 20, 25, 30, 35, 40, 45, 50, 60 A	A Ratings available vary depending on certifica  * Other ratings are available as special orders. Chec				
Group 9:	Code	For future use (-)					
Group 10:	Code	Description	Commen	ts			
Shunt Trip	-	Not applicable	Use this code if no shu	nt trip is used			
Group 11	Code	For futur	re use (-)				

For options not listed, please contact CBI

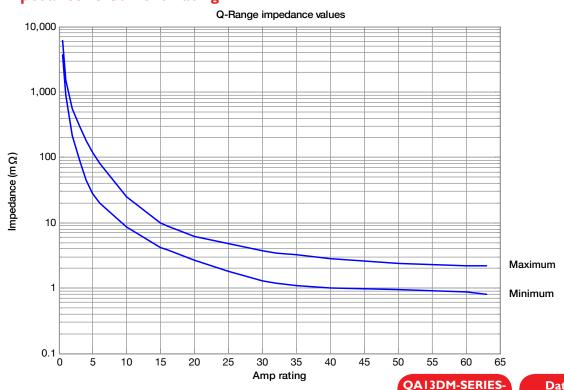


## **Time Delay Curves**



<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.

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



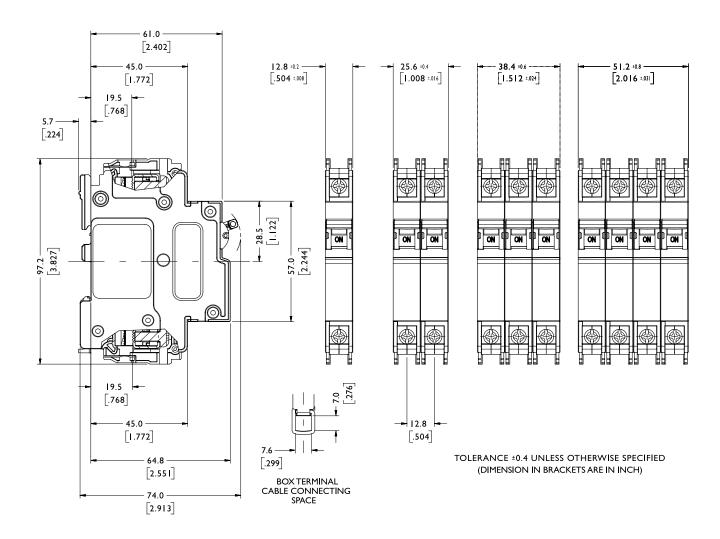
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**DAT** 

**APR 2017** 



### **Outline Dimensions: Mini Rail**



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### **AUSTRALIA**

### CBI-electric: Australia

27 Wedgewood Rd, Hallam Victoria 3803 Australia Tel: +61 3 8752 9300 Fax: +61 3 9796 5407 Email: sales@chi-electric.com

Email: <a href="mailto:sales@cbi-electric.com.au">sales@cbi-electric.com.au</a>
Website: <a href="mailto:www.cbi-electric.com.au">www.cbi-electric.com.au</a>

# SOUTH AFRICA

### CBI-electric: low voltage

Tripswitch Drive Elandsfontein Gauteng South Africa Tel: +27 11 928 2000 Fax: + 27 11 392 2354 Email: cbi@cbi-electric.com

internationalsales@cbi-electric.com Website: <a href="mailto:www.cbi-lowvoltage.co.za">www.cbi-lowvoltage.co.za</a>

### USA

CBI-electric: North America

35 E. Uwchlan Ave Suite 328 Exton PA 19341 USA Tel: +1 610 524 9949 Fax: +1 610 524 9945

E-mail: info@cbibreakers.com
Website: www.cbibreakers.com

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