







Mini Rail Mount 2 pole



Mini Rail Mount 3 pole



Mini Rail Mount 3 + N

Features

- AC Circuit Breaker
- Hydraulic-Magnetic technology
- 100% rating capability, independent of ambient temperature
- VC 8036 compliant (SANS 556-1)
- VDE approved, CE certified
- Ratings 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
- Mini Rail Mount product in black 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



Technical Data

Product Type	Circuit Breaker						
Approvals	VC 8036 (SANS 556-1)						
Number of Poles	I 2 (I+N) 2 3 4 (3+N)						
Operating Voltages	240 V AC 415 V AC						
Minimum Current Rating	5 A 5 A						
Maximum Current Rating	60 A 50 A				Α		
Interrupting Capacity	2.5 kA						

Product Type	Circuit Breaker					
Approvals	IEC / EN 60947-2, VDE					
Number of Poles	1 2 (I+N) 2 3 4 (3+N)					
Operating Voltages	240 V AC 415 V AC					
Minimum Current Rating	5 A					
Maximum Current Rating	50 A					
Interrupting Capacity	3 kA					

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

Description				
Operating Temperature Range -40 °C to +85 °C				
Mounting Options	Mini Rail, surface mount			
Time Delay Curves	3			

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



Long Code

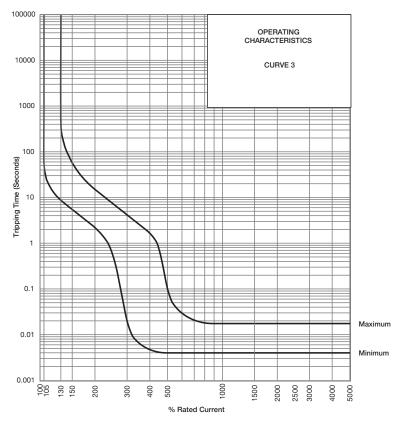
Example Code: QA----3(13)-MR-3-15A-----

Group	ı	2	3	4	5	6	7	8	9	10	Ш
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
Long Code	QA	-	-	3	(13)	MR	3	I5A	-	-	-

Group I:	Code	Description	Comment	s			
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					
Group 3:	Code	Description	Comments				
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			
	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	Comment	S			
No of Poles	1	Single pole					
	2	Double pole	2 pole or I+N				
	3	Triple pole					
	4	Four pole	4 pole or 3+N				
Group 5:	Code	Description	Comment	S			
Module Width	(13)	13 mm module width					
Group 6:	Code	Description	Comment	S			
Mounting	MR	Mini Rail Mount	Mini Rail Mount supplied in black body only - 57 mm Escutcheon				
	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	3	Short time delay	3 – 5	White handle			
Group 8:		Code / Description	Comments				
Current 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	ode For future use (-)					
Group 10:	Code	Description	Comments				
Shunt Trip	-	Not applicable	Use this code if no Shur	nt Trip is used			
Group II	Code	For future use (-)					

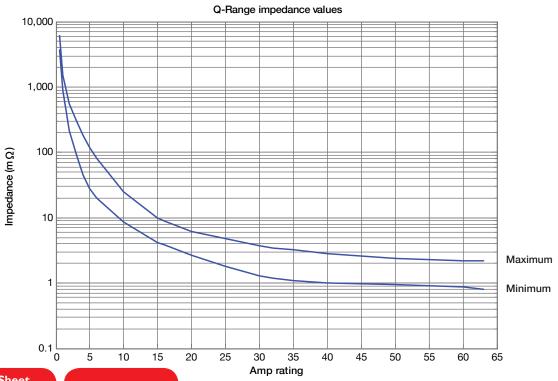


Time Delay Curves



^{*} 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



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Typical outline of Auxiliary Switch / Trip Alarm

Auxiliary available (6.5 mm module width) to match the unit to which it is attached.

Available types as listed in Group 3:

Type T - Trip Alarm as shown in outline drawings (fitted on a Dual Mount product)

Circuit diagram when

the Circuit Breaker is in the "OFF" position

Trip Alarm Switch

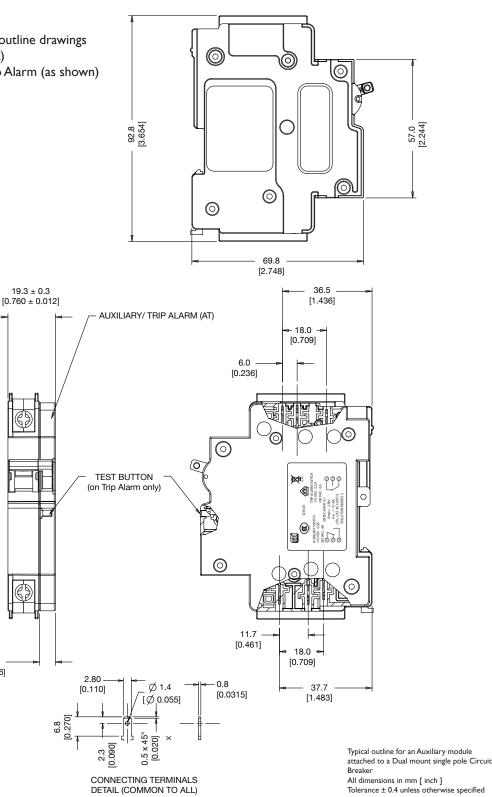
Auxiliary Switch 11

NC

6.5 [0.256]

(16) NC (18) NO (15) C

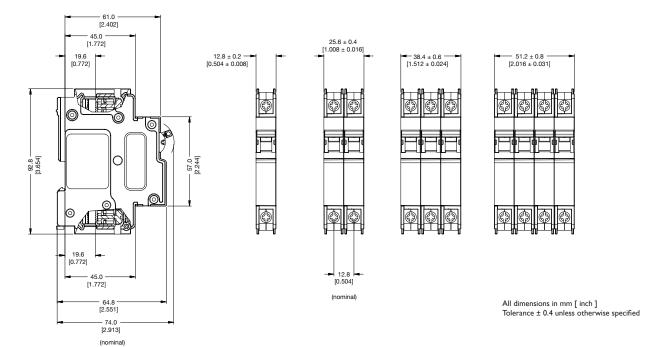
- Type AT Auxiliary Switch + Trip Alarm (as shown)
- Type A Auxiliary Switch



DETAIL (COMMON TO ALL)



Outline Dimensions: Mini Rail



Made in Lesotho