

QF(26)LR - Series Miniature Circuit Breakers



1 pole
Dual (DIN & mini rail) mount



2 pole
Dual (DIN & mini rail) mount



3 + N
Dual (DIN & mini rail) mount

Features

- AC circuit breaker
- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- One, two, three pole, 1+N and 3+N (VDE)
- VC 8036 and CE compliant
- CCC approved
- Ratings 5 to 63 A (subject to certification)
- Precision tripping characteristics
- Trip indication with mid-trip position
- Can be switched on immediately after tripping
- Dual (DIN & mini rail) mount, **57 mm** front escutcheon (**Black**)
- Suitable to use for electrical isolation
- Box terminals suitable for cables up to 50 mm²

Applications

- AC branch circuit protection (DIN / EN 60947-2)
- 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 - SAAP001
- Surface mounting clips - 2096001
- Busbar - 2121043
- Escutcheon blank - SFEB000
- Safety blank - SAEB000

VC 8036



Hydraulic-Magnetic Circuit Breakers 100% rated, unaffected by ambient temperature

QF(26)LR - Series Miniature Circuit Breakers

Technical Data

Product Type	Circuit Breaker				
Approvals	VC 8036 (SANS 556-1, SANS IEC 60947-2), CE, UKCA				
Number of Poles	1	2 (1+N)	2	3	4 (3+N)
Operating Voltages	240 Vac		415 Vac		
Minimum Current Rating	5 A				
Maximum Current Rating	63 A				
Ultimate S/C Breaking Capacity (Icu)	5 kA				
Short Circuit Breaking Capacity (Ics)	2.5 kA				

Product Type	Circuit Breaker				
Approvals	GB 14048.2				
Number of Poles	1	2 (1+N)	2	3	4 (3+N)
Operating Voltages	240 Vac		415 Vac		
Minimum Current Rating	5 A				
Maximum Current Rating	63 A				
Rated Withstand Current Capacity (Icw)	6 kA				
Rated Interrupting Current Capacity (Ics)	3 kA				
Ultimate S/C Breaking Capacity (Icu)	6 kA				

Verify approvals for specific ratings in accordance with the relevant test certificate.

Product Type	QF(26)LR
Operating Temperature Range	-40 °C to +85 °C
Mounting Options	Dual (DIN & mini rail) mount, surface mount
Time Delay Curves	1, 2, 3, 9
Endurance	10000 operations - 1500 electrical at rated current and voltage (IEC 60947-2 Clause 7.2.4.2)
Dielectric Strength	1480 V (single pole) / 1830 V (multi pole), 50 Hz for one minute after testing
Rated Impulse Withstand	6 kV (IEC 60947-2 Clause 8.3.3.2)
Weight	200 g per pole (unpacked)
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Shock	16 G (IEC 60068-2-27)
Vibration	2 G (IEC 60068-2-6) Sinusoidale 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 QF	Wire Size (IEC)	Torque (IEC)	Comments
Main Terminal	2.5 mm ² - 25 mm ²	4 N.m	. Pozidriv #2 Combi head

QF(26)LR - Series Miniature Circuit Breakers

Long Code

Example Code: QF----3(26)-DM-2-63 A-----

Group	1	2	3	4	5	6	7	8	9	10	11	12	13
Requirement	QF Frame	Switch / neutral	N/A	No of poles	Module width	Dual mount	Medium delay curve	Current rating	Future use	Shunt trip	Future use	Future use	Customer specific
Long Code	QF	-	-	3	(26)	DM	2	63 A	-	-	-	-	-

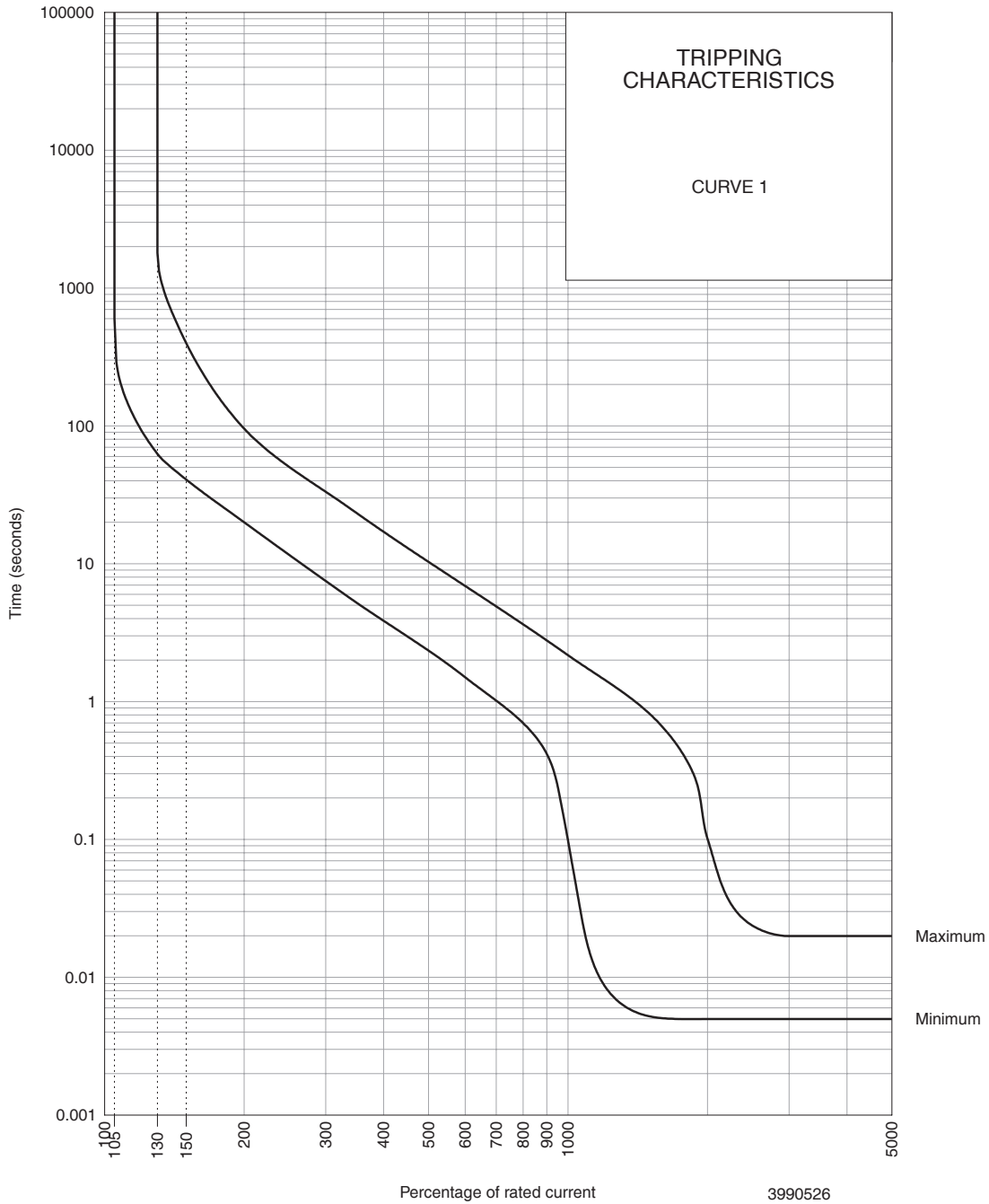
Ordering Information

Group	Code	Description	Comments
Group 1: Frame Type	QF	Miniature circuit breaker	26 mm wide
	-	Not applicable	
Group 2: Switch/Neutral	S	Switch	Green handle
	N	Neutral	Green handle
	-	Not applicable	
Group 3: Auxiliary	-	Not applicable	
	-	Not applicable	
Group 4: 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: Module Width	(26)	26 mm module width	26 mm per pole
	-	Not applicable	
Group 6: Mounting	DM	Dual (DIN & mini rail) mount	Dual mount supplied in black body only - 57 mm front escutcheon
	-	Not applicable	
Group 7: Time Delays	1	Long time delay, high instantaneous trip	10 – 20 Orange handle
	2	Medium time delay	5 – 10 White handle
	3	Short time delay	3 – 5 White handle
	9	Long time delay	7 – 12 White handle
	-	Not applicable	
Group 8: Current Ratings	-	Not applicable	
	-	Not applicable	
Group 9:	-	Not applicable	For future use
	-	Not applicable	
Group 10: Shunt Trip	-	Not applicable	Use this code if no shunt trip is used
	-	Not applicable	
Group 11:	-	Not applicable	For future use
	-	Not applicable	
Group 12:	-	Not applicable	For future use
	-	Not applicable	
Group 13: Customer Specific	-	Not applicable	For future use
	-	Not applicable	

For options not listed, please contact CBI

QF(26)LR - Series Miniature Circuit Breakers

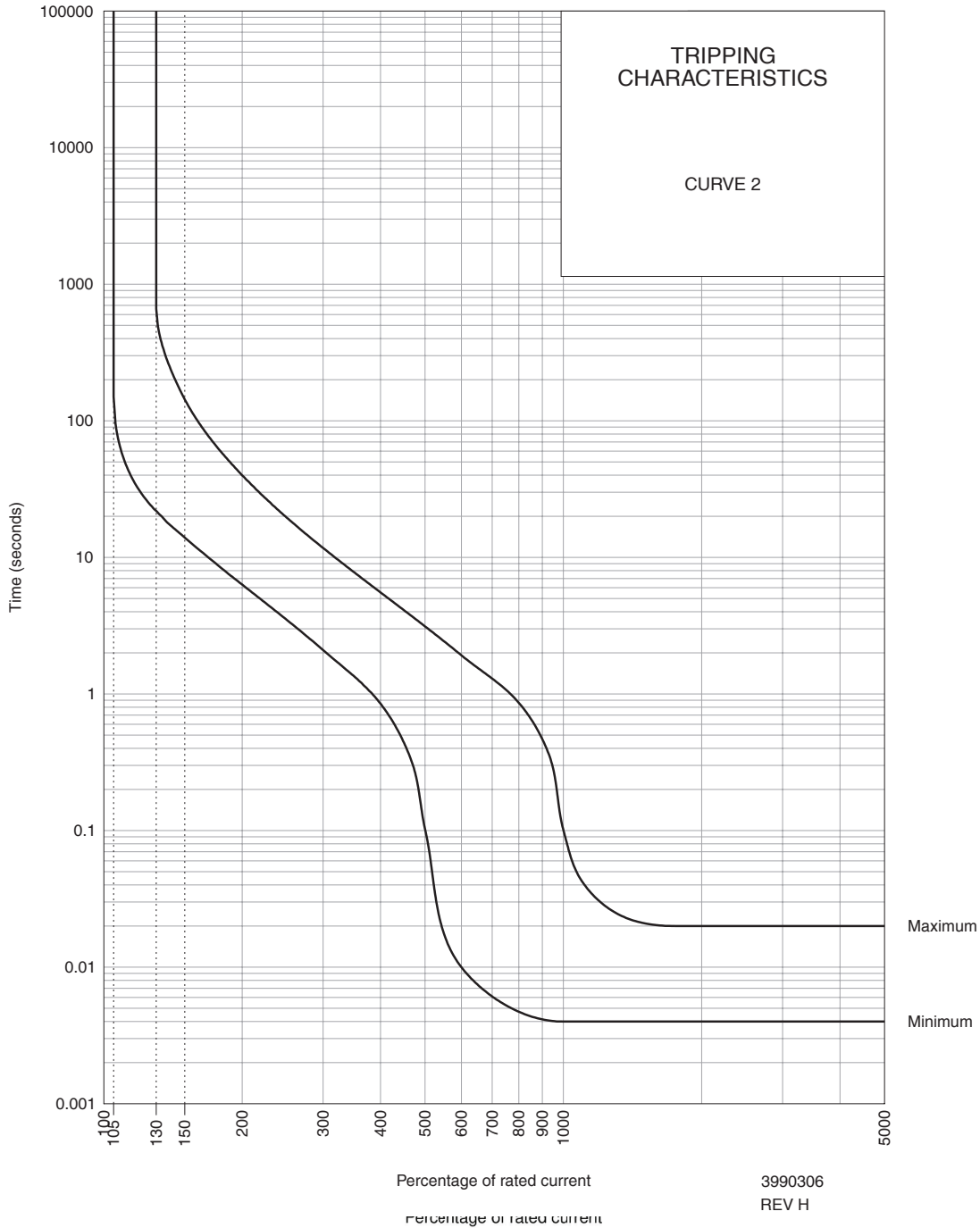
Time Delay Curve



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

QF(26)LR - Series Miniature Circuit Breakers

Time Delay Curve

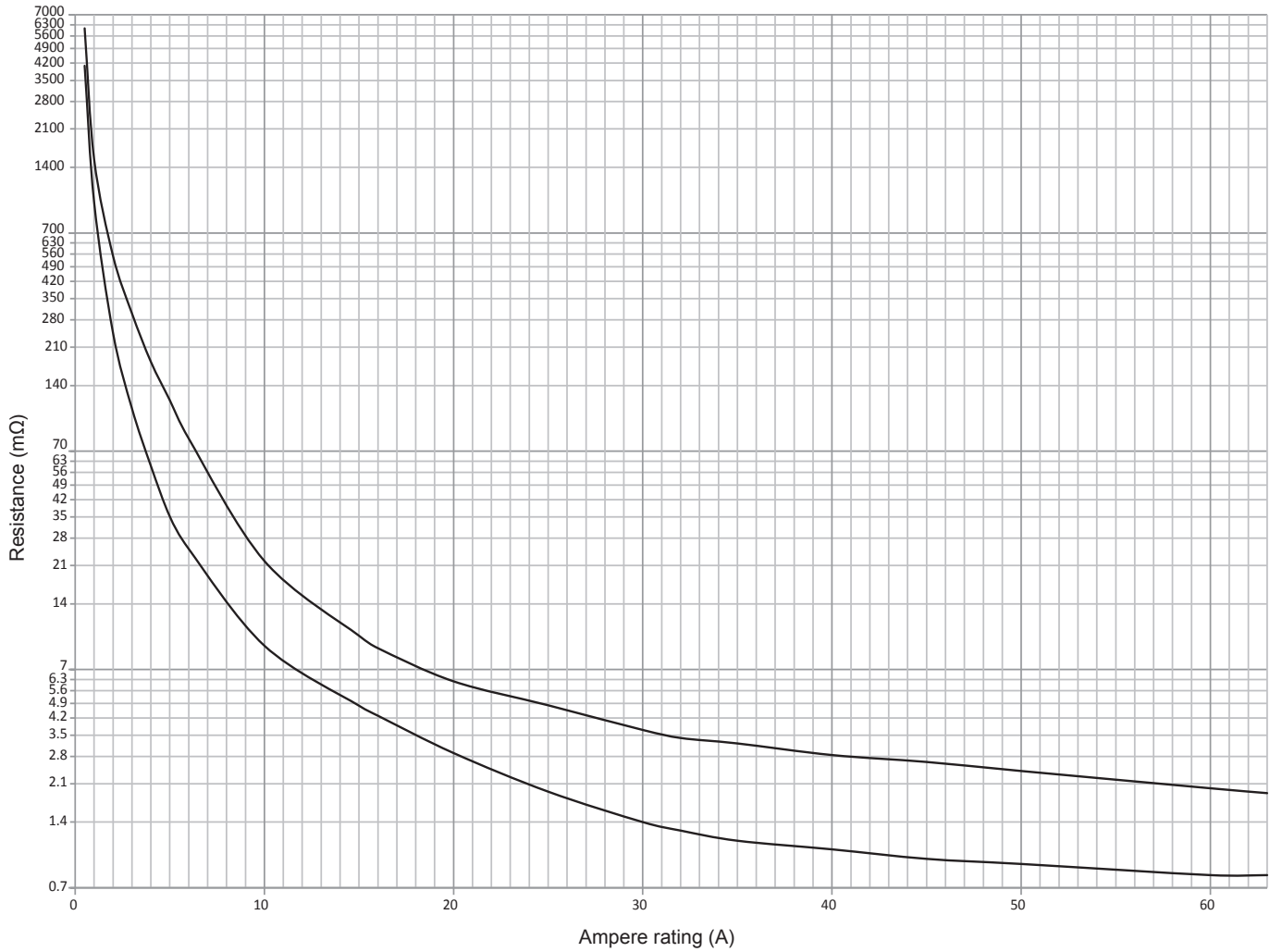


PERCENTAGE OF RATED CURRENT	105%	130%	145%	150%	200%	300%	400%	500%	600%	700%	800%	900%	1000%	2000%
MINIMUM TRIP TIME IN SECONDS	NO TRIP	22	15.4	14	6.3	2.1	0.85	0.1	0.001	0.006	0.005	0.041	0.004	0.004
MAXIMUM TRIP TIME IN SECONDS	NO TRIP	660	180	144	40	12	5.5	3	1.92	1.3	0.86	0.47	0.1	0.02

* 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.

QF(26)LR - Series Miniature Circuit Breakers

Resistance Curve

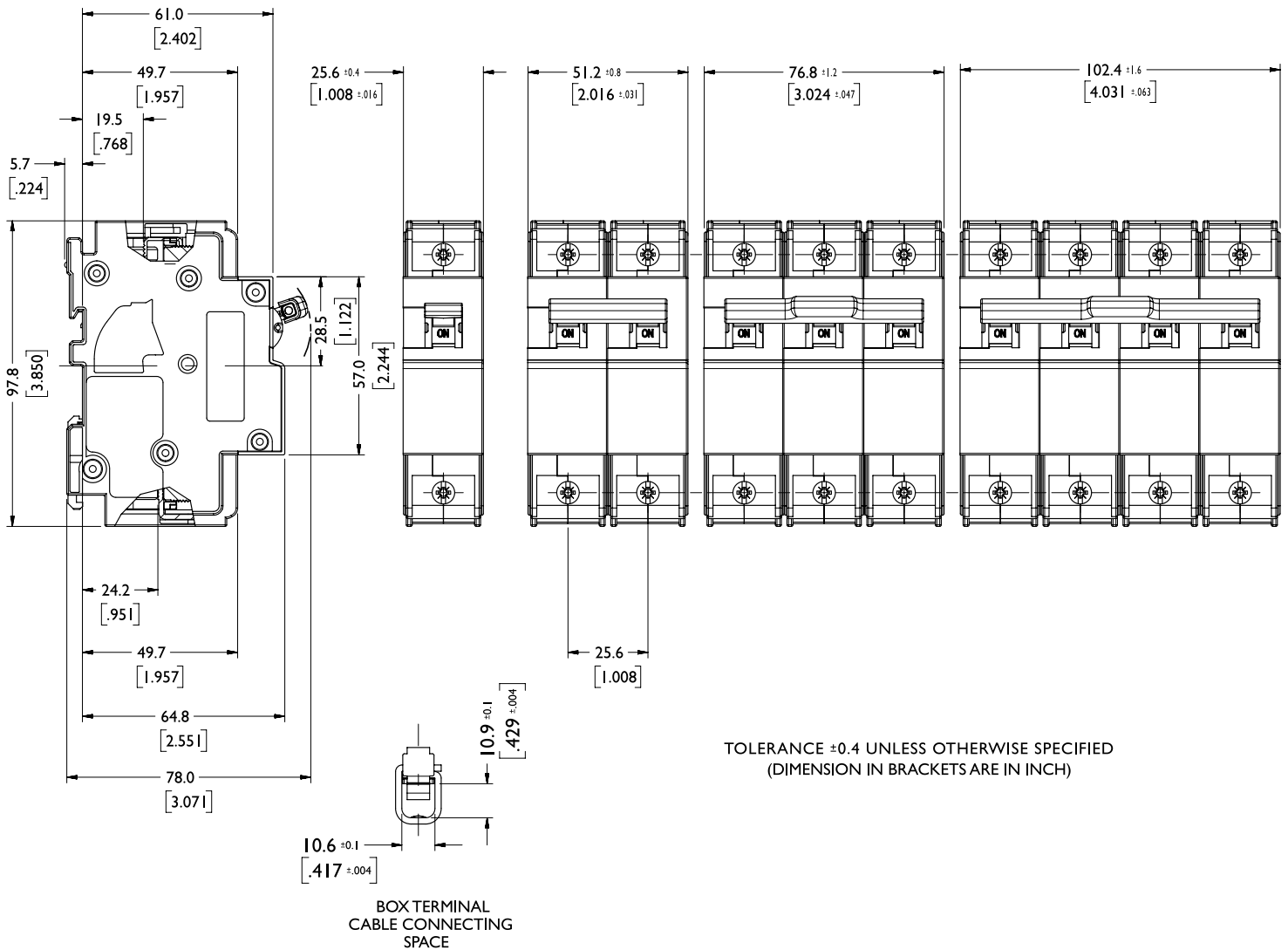


3990A784 REV A

Amp RATING	0.5	1	2	5	6	10	15	20	25	30	32	40	50	60	63
MINIMUM (mΩ)	4085	970	244	35	25	9.0	4.8	2.9	1.9	1.4	1.3	1.1	0.9	0.8	0.8
MAXIMUM (mΩ)	6065	1527	550	120	80	22	10	6.2	4.8	3.7	3.4	2.8	2.4	2.0	1.9

QF(26)LR - Series Miniature Circuit Breakers

Outline Dimensions: Dual (DIN & mini rail) mount



Please review our Customer Terms and Conditions on www.cbi-lowvoltage.co.za

All rights reserved. Unless otherwise indicated, all materials on these pages are copyrighted by CBI (Pty) Ltd. No part of these pages, either text or image may be used for any purpose other than personal use. Therefore, reproduction, modification, storage in a retrieval system or retransmission, in any form or by any means, electronic, mechanical or otherwise, for reasons other than personal use, is strictly prohibited without prior written permission. CBI (Pty) Ltd reserves the right to alter any details of this document without notice and while every effort is made to ensure the accuracy of the content, no warranty is given as to accuracy of this document and no responsibility will be accepted for error or misinterpretation and any resulting loss.

AUSTRALIA

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

INDIA

CBI-electric: Asia
A1, Pushpagiri Residency, 1st Cross
2nd Main, Jyothi Nagar, B.G Road
Bengaluru 560083, India
Tel: +91-9880553153
Email: salesasia@cbi-electric.com
Website: www.cbibreakers.com
Website: www.cbi-lowvoltage.com

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: www.cbi-lowvoltage.com

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