

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 |

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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 | - | - | - | - | - |

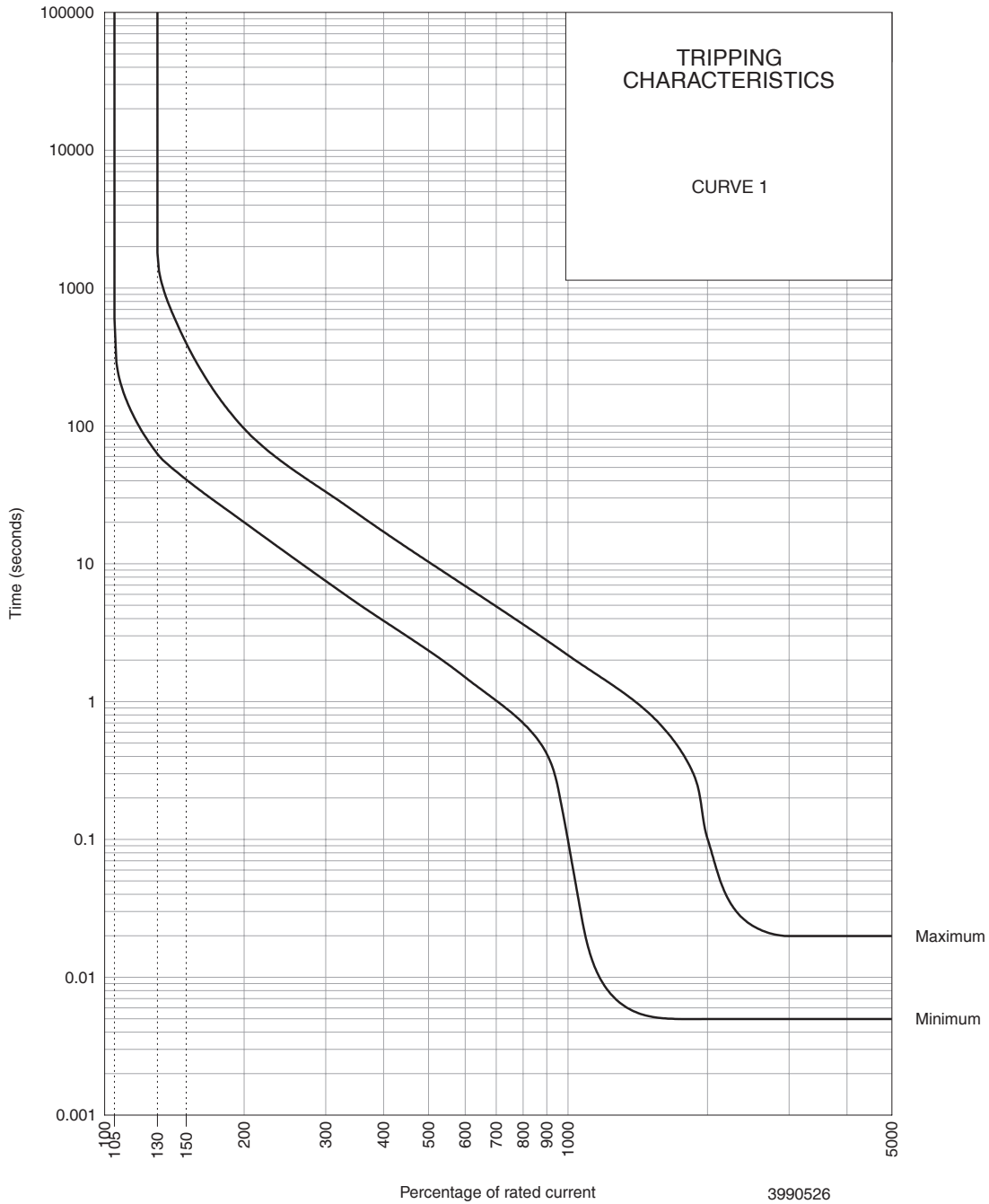
Ordering Information

| 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 |
| Group 8: Current Ratings | - | Not applicable | |
| | - | Not applicable | |
| Group 9: | - | Not applicable | For future use |
| | - | Not applicable | For future use |
| 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 | For future use |
| Group 12: | - | Not applicable | For future use |
| | - | Not applicable | For future use |
| Group 13: Customer Specific | - | Not applicable | For future use |
| | - | Not applicable | For future use |

For options not listed, please contact CBI

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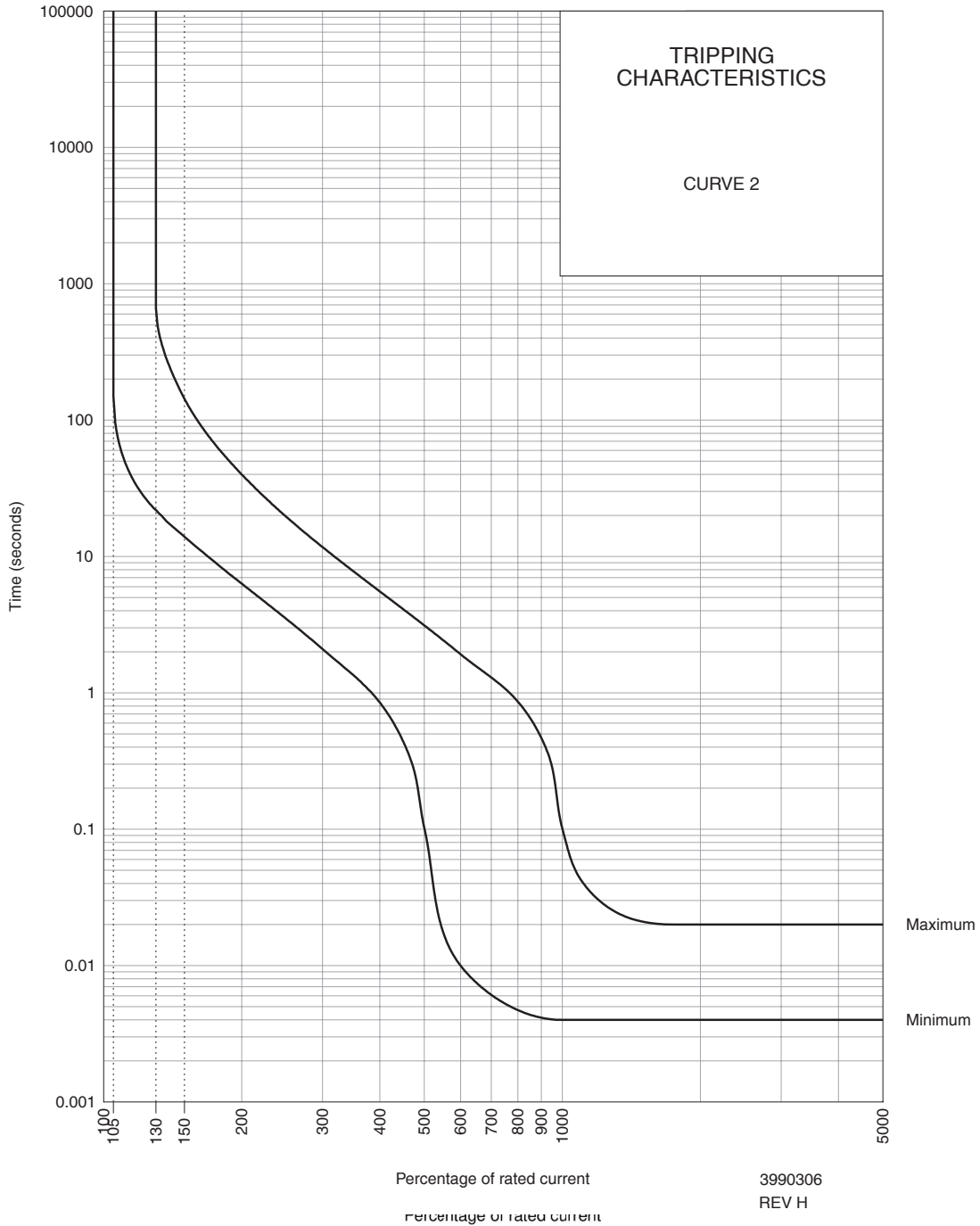
Time Delay Curve



| 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 |

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Time Delay Curve

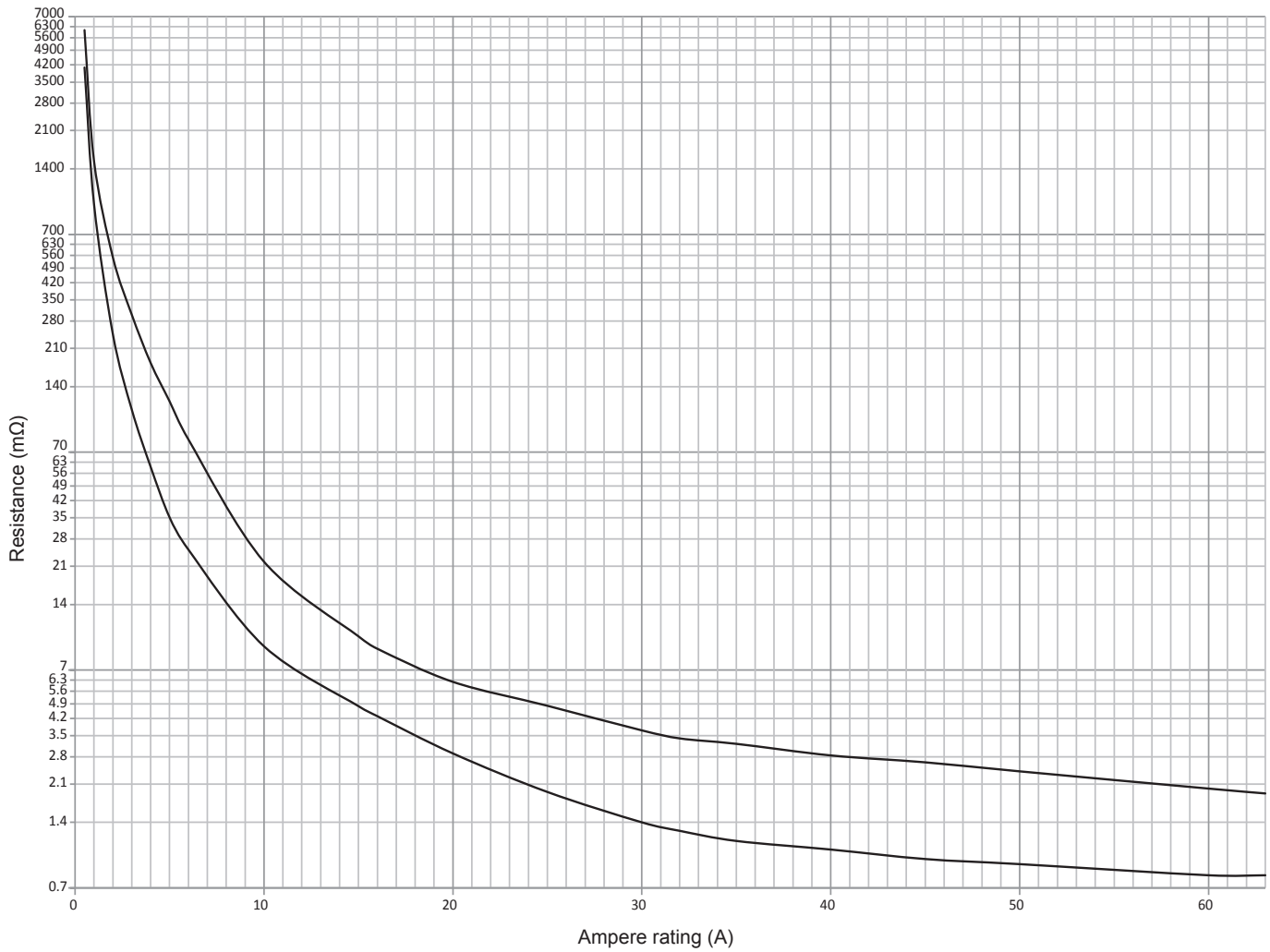


| PERCENTAGE OF RATED CURRENT | 105% | 130% | 145% | 150% | 200% | 300% | 400% | 500% | 600% | 700% | 800% | 900% | 1000% | 2000% |
|------------------------------|---------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| MINIMUM TRIP TIME IN SECONDS | 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.

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Resistance Curve

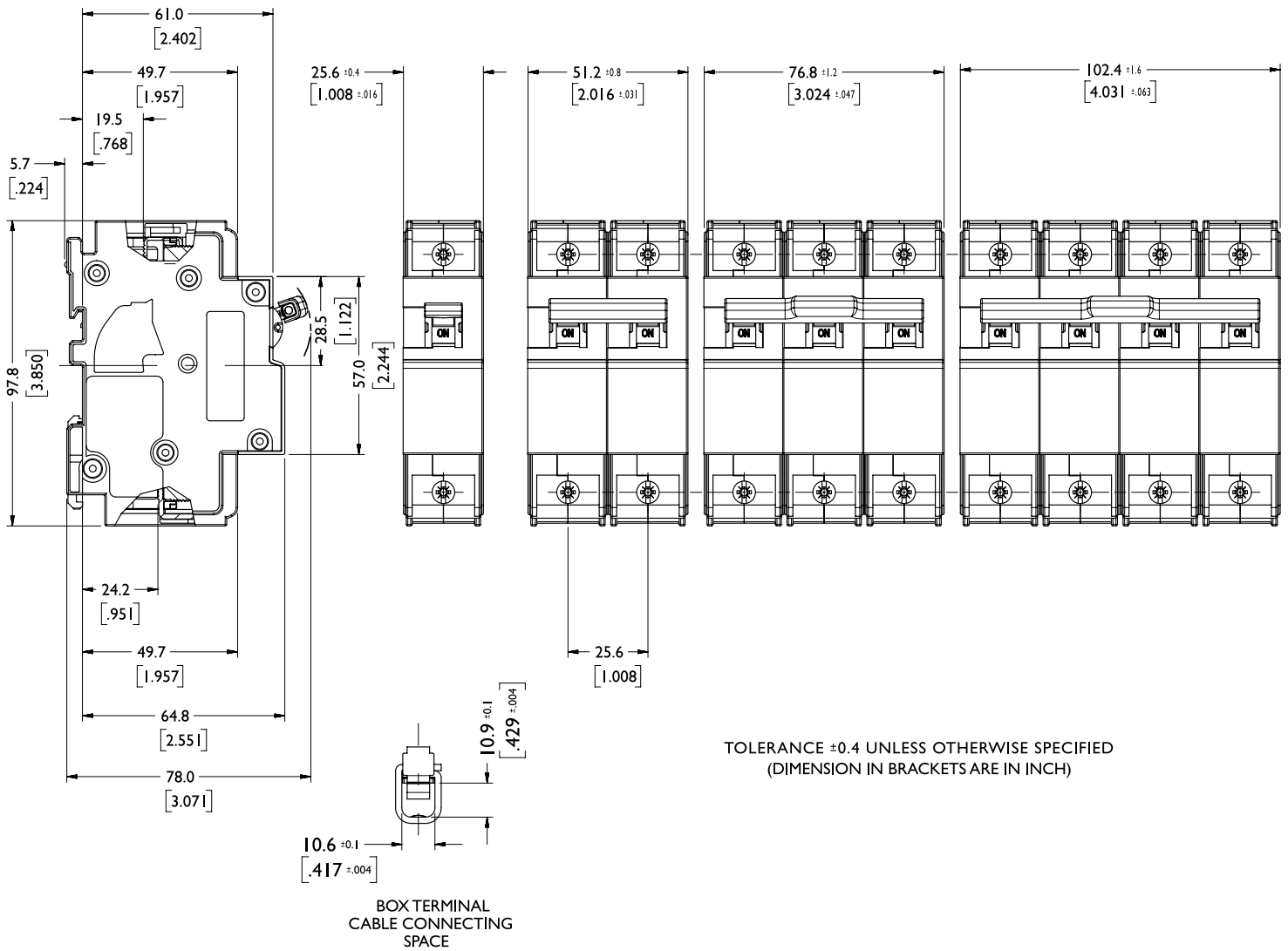


3990A784 REV A

| 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



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