## Time current curves

Navy MCCB circuit breakers

**AQB-A101 thermal-magnetic**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revision notes:</strong></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Thermal magnetic trip unit curves standard 60 Hz</strong></td>
<td>1. Thermal magnetic 15A</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2. Thermal magnetic 25A</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>3. Thermal magnetic 50A</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>4. Thermal magnetic 75A</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>5. Thermal magnetic 100A</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>6. Thermal magnetic 100A Generator</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td><strong>Thermal magnetic trip unit curves 400 Hz</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7. Thermal magnetic 15A</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>8. Thermal magnetic 25A</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>9. Thermal magnetic 50A</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>10 Thermal magnetic 75A</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>11 Thermal magnetic 100A</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>12 Thermal magnetic 100A Generator</td>
<td>14</td>
</tr>
</tbody>
</table>

Effective November 2017

Technical Data **TD012059EN**

Time current curves

Navy MCCB circuit breakers

**AQB-A101 thermal-magnetic**
**Revision notes**

*Note:* Unless noted below, all curves remain unchanged from their prior revision.

<table>
<thead>
<tr>
<th>Revision</th>
<th>Curve number</th>
<th>Page</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Time current curves
Navy MCCB circuit breakers
AQB-A101 thermal-magnetic

Navy AQB-A101 15A Thermal Magnetic Standard 60Hz

Circuit Breaker time/current curves
Navy AQB-A101 Circuit Breakers
Standard 60Hz three pole
Catalog Types: AQB-A101
For application and coordination purposes only.
Based on cold start at 50°C rated ambient temperature.
Instantaneous tripping is single pole.
Maximum Vac: 500V
Maximum Vdc: 250V

Breaker Ratings
Continuous Amps Instantaneous trip amperes
15A 90 (LO) - 195 (HI) Amperes

Interruption Ratings
Breaker Asymmetrical RMS amperes (kA)
Type 500 Vac 250 Vdc
A101 15kA 10kA

Figure 1. AQB-A101 15A 60Hz
Curve number TC012036EN
September 2017.
Technical Data TD012059EN
Effective November 2017

Navy AQB-A101 25A Thermal Magnetic Standard 60Hz

Time current curves
Navy MCCB circuit breakers
AQB-A101 thermal-magnetic

Figure 2. AQB-A101 25A 60 Hz

Curve number TC012037EN
September 2017.
Circuit Breaker time/current curves

Navy AQB-A101 Circuit Breakers

Standard 60Hz three pole

Catalog Types: AQB-A101

For application and coordination purposes only.
Based on cold start at 50°C rated ambient temperature.
Instantaneous tripping is single pole.

Maximum Vac: 500V
Maximum Vdc: 250V

Breaker Ratings

<table>
<thead>
<tr>
<th>Continuous Amps</th>
<th>Instantaneous trip amperes</th>
</tr>
</thead>
<tbody>
<tr>
<td>50A</td>
<td>300 (LO) - 650 (HI) Amperes</td>
</tr>
</tbody>
</table>

Interruption Ratings

<table>
<thead>
<tr>
<th>Breaker Type</th>
<th>Asymmetrical RMS amperes (kA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A101</td>
<td>15kA 250 Vdc</td>
</tr>
<tr>
<td></td>
<td>10kA 250 Vdc</td>
</tr>
</tbody>
</table>

Figure 3. AQB-A101 50A 60 Hz

Curve number TC012038EN

September 2017
Figure 4. AQB-A101 75A 60 Hz  
Curve number TC012039EN  
September 2017.

Navy AQB-A101 75A Thermal Magnetic Standard 60Hz

**Circuit Breaker time/current curves**

**Navy AQB-A101 Circuit Breakers**

**Standard 60Hz three pole**

**Catalog Types: AQB-A101**

For application and coordination purposes only. Based on cold start at 50°C rated ambient temperature. Instantaneous tripping is single pole.

**Maximum Vac:** 500V  
**Maximum Vdc:** 250V

**Breaker Ratings**

<table>
<thead>
<tr>
<th>Breaker Type</th>
<th>Asymmetrical RMS amperes (kA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A101</td>
<td>15kA</td>
</tr>
<tr>
<td></td>
<td>10kA</td>
</tr>
</tbody>
</table>

**Continuous Amps**  
**Instantaneous trip amperes**

<table>
<thead>
<tr>
<th>Breaker Type</th>
<th>Current in Amperes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQB-A101</td>
<td>75A (LO) - 975 (HI) Amperes</td>
</tr>
</tbody>
</table>

**Interuption Ratings**

- **Type A101**
  - 500 Vac: 15kA
  - 250 Vdc: 10kA
Navy AQB-A101 100A Thermal Magnetic Standard 60Hz

Circuit Breaker time/current curves
Navy AQB-A101 Circuit Breakers
Standard 60Hz three pole
Catalog Types: AQB-A101
For application and coordination purposes only.
Based on cold start at 50°C rated ambient temperature.
Instantaneous tripping is single pole.
Maximum Vac: 500V
Maximum Vdc: 250V

Breaker Ratings
Continuous Amps  Instantaneous trip amperes
100A  600 (LO) - 1300 (HI) Amperes

 Interruption Ratings
Breaker   Asymmetrical RMS amperes (kA)
Type  500 Vac  250 Vdc
A101  15kA  10kA

Figure 5. AQB-A101 100A 60 Hz
Curve number TC012040EN  September 2017.
Navy AQB-A101 100A Thermal Magnetic Generator 60Hz

Circuit Breaker time/current curves
Navy AQB-A101 Circuit Breakers
Generator 60Hz three pole
Catalog Types: AQB-A101
For application and coordination purposes only.
Based on cold start at 50°C rated ambient temperature.
Instantaneous tripping is single pole.
Maximum Vac: 500V
Maximum Vdc: 250V

Breaker Ratings
Continuous Amps Instantaneous trip amperes
100A 600 (LO) - 1300 (HI) Amperes

Interruption Ratings

<table>
<thead>
<tr>
<th>Breaker Type</th>
<th>500 Vac asymmetrical RMS amperes (kA)</th>
<th>250 Vdc asymmetrical RMS amperes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A101</td>
<td>15kA</td>
<td>10kA</td>
</tr>
</tbody>
</table>

Figure 6. AQB-A101 100A generator 60 Hz
Curve number TC012041EN
September 2017.
Navy AQB-A101 15A Thermal Magnetic Standard 400Hz

Circuit Breaker time/current curves
Navy AQB-A101 Circuit Breakers
Standard 400Hz three pole
Catalog Types: AQB-A101

For application and coordination purposes only.
Based on cold start at 50°C rated ambient temperature.
Instantaneous tripping is single pole.

Maximum Vac: 500V
Maximum Vdc: N/A

Breaker Ratings
Continuous Amps  Instantaneous trip amperes
15A 90 (LO) - 195 (HI) Amperes

Interruption Ratings
Breaker  Asymmetrical RMS amperes (kA)
Type  500 Vac
A101 7.5kA

Figure 7. AQB-A101 15A 400 Hz
Curve number TC012042EN
September 2017.
Navy AQB-A101 25A Thermal Magnetic Standard 400Hz

Figure 8. AQB-A101 25A 400 Hz

<table>
<thead>
<tr>
<th>Breaker</th>
<th>Asymmetrical RMS amperes (kA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A101</td>
<td>7.5kA</td>
</tr>
</tbody>
</table>

Breaker Ratings

- Continuous Amps: 25A
- Instantaneous trip amperes: 150 (LO) - 325 (HI) Amperes

Instantaneous tripping is single pole.

- Maximum Vac: 500V
- Maximum Vdc: N/A

For coordination purposes only.

Based on cold start at 50°C rated ambient temperature.

Maximum Vac: 500V
Maximum Vdc: N/A

Catalog Types: AQB-A101

Three pole

Instantaneous trip amperes

- 25A: 150 (LO) - 325 (HI) Amperes

For application and coordination purposes only.

Based on cold start at 50°C rated ambient temperature.

Maximum Vac: 500V
Maximum Vdc: N/A

Breaker Ratings

- Continuous Amps: 25A
- Instantaneous trip amperes: 150 (LO) - 325 (HI) Amperes

Instantaneous tripping is single pole.

- Maximum Vac: 500V
- Maximum Vdc: N/A

For coordination purposes only.

Based on cold start at 50°C rated ambient temperature.

Maximum Vac: 500V
Maximum Vdc: N/A

Breaker Ratings

- Continuous Amps: 25A
- Instantaneous trip amperes: 150 (LO) - 325 (HI) Amperes

Instantaneous tripping is single pole.

- Maximum Vac: 500V
- Maximum Vdc: N/A

For coordination purposes only.

Based on cold start at 50°C rated ambient temperature.

Maximum Vac: 500V
Maximum Vdc: N/A

Breaker Ratings

- Continuous Amps: 25A
- Instantaneous trip amperes: 150 (LO) - 325 (HI) Amperes

Instantaneous tripping is single pole.

- Maximum Vac: 500V
- Maximum Vdc: N/A

For coordination purposes only.

Based on cold start at 50°C rated ambient temperature.

Maximum Vac: 500V
Maximum Vdc: N/A

Breaker Ratings

- Continuous Amps: 25A
- Instantaneous trip amperes: 150 (LO) - 325 (HI) Amperes

Instantaneous tripping is single pole.

- Maximum Vac: 500V
- Maximum Vdc: N/A

For coordination purposes only.

Based on cold start at 50°C rated ambient temperature.

Maximum Vac: 500V
Maximum Vdc: N/A

Breaker Ratings

- Continuous Amps: 25A
- Instantaneous trip amperes: 150 (LO) - 325 (HI) Amperes

Instantaneous tripping is single pole.

- Maximum Vac: 500V
- Maximum Vdc: N/A

For coordination purposes only.

Based on cold start at 50°C rated ambient temperature.

Maximum Vac: 500V
Maximum Vdc: N/A

Breaker Ratings

- Continuous Amps: 25A
- Instantaneous trip amperes: 150 (LO) - 325 (HI) Amperes

Instantaneous tripping is single pole.

- Maximum Vac: 500V
- Maximum Vdc: N/A

For coordination purposes only.

Based on cold start at 50°C rated ambient temperature.

Maximum Vac: 500V
Maximum Vdc: N/A

Breaker Ratings

- Continuous Amps: 25A
- Instantaneous trip amperes: 150 (LO) - 325 (HI) Amperes

Instantaneous tripping is single pole.

- Maximum Vac: 500V
- Maximum Vdc: N/A

For coordination purposes only.

Based on cold start at 50°C rated ambient temperature.

Maximum Vac: 500V
Maximum Vdc: N/A

Breaker Ratings

- Continuous Amps: 25A
- Instantaneous trip amperes: 150 (LO) - 325 (HI) Amperes

Instantaneous tripping is single pole.

- Maximum Vac: 500V
- Maximum Vdc: N/A

For coordination purposes only.

Based on cold start at 50°C rated ambient temperature.

Maximum Vac: 500V
Maximum Vdc: N/A

Breaker Ratings

- Continuous Amps: 25A
- Instantaneous trip amperes: 150 (LO) - 325 (HI) Amperes

Instantaneous tripping is single pole.

- Maximum Vac: 500V
- Maximum Vdc: N/A

For coordination purposes only.

Based on cold start at 50°C rated ambient temperature.
Circuit Breaker time/current curves

Navy AQB-A101 Circuit Breakers
Standard 400Hz three pole
Catalog Types: AQB-A101

For application and coordination purposes only.
Based on cold start at 50°C rated ambient temperature.
Instantaneous tripping is single pole.

Maximum Vac: 500V
Maximum Vdc: N/A

Breaker Ratings

Continuous Amps  Instantaneous trip amperes
50A  300 (LO) - 650 (HI) Amperes

Interruption Ratings

<table>
<thead>
<tr>
<th>Breaker</th>
<th>Asymmetrical RMS amperes (kA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A101</td>
<td>7.5kA</td>
</tr>
</tbody>
</table>

Figure 9. AQB-A101 50A 400 Hz  Curve number TC012044EN September 2017.
Navy AQB-A101 75A Thermal Magnetic Standard 400Hz

Circuit Breaker time/current curves
Navy AQB-A101 Circuit Breakers
Standard 400Hz three pole
Catalog Types: AQB-A101
For application and coordination purposes only.
Based on cold start at 50°C rated ambient temperature.
Instantaneous tripping is single pole.

Maximum Vac: 500V
Maximum Vdc: N/A

Breaker Ratings
Continuous Amps Instantaneous trip amperes
75A 450 (LO) - 975 (HI) Amperes

Interruption Ratings
Breaker Asymmetrical RMS amperes (kA)
Type 500 Vac
A101 7.5kA

Figure 10. AQB-A101 75A 400 Hz
Curve number TC012045EN
September 2017.
Time current curves
Navy MCCB circuit breakers
AQB-A101 thermal-magnetic

Figure 11. AQB-A101 100A 400 Hz
Curve number TC012046EN
September 2017.
Circuit Breaker time/current curves
Navy AQB-A101 Circuit Breakers
Generator 400Hz three pole
Catalog Types: AQB-A101
For application and coordination purposes only. Based on cold start at 50°C rated ambient temperature. Instantaneous tripping is single pole.
Maximum Vac: 500V
Maximum Vdc: N/A
Breaker Ratings
Continuous Amps Instantaneous trip amperes
100A 600 (LO) - 1300 (HI) Amperes
Interruption Ratings
Breaker Asymmetrical RMS amperes (kA)
Type 500 Vac
A101 7.5kA

Figure 12. AQB-A101 100A generator 400 Hz
Curve number TC012047EN
September 2017.
Time current curves
Navy MCCB circuit breakers
AQB-A101 thermal-magnetic

Notes: