## DATASHEET - AZ-3-C100



Miniature circuit breaker (MCB), 100A, 3p, C-Char

| Part no.  | AZ-3-C100 |
|-----------|-----------|
|           | 211806    |
| EL Number | 1601052   |
| (Norway)  |           |

## **General specifications**

| General specifications                                       |                        |   |
|--|------------------------|---|
| Product name   | Eator                  | Noeller series xEffect - AZ MCB   |
| Part no.   | AZ-3-                  | C100  |
| EAN  | 40150                  | 82118068  |
| Product Length/Depth   | 90 mi                  | llimetre  |
| Product height   | 75 mi                  | llimetre  |
| Product width  | 81 mi                  | llimetre  |
| Product weight   | 0.69 k                 | ilogram   |
| Compliances  | RoHS                   | conform   |
| Certifications   | EN45<br>IEC 6<br>IEC/E |   |
| Product Tradename  | xEffe                  | ct - AZ MCB   |
| Product Type   | MCB                    |   |
| Product Sub Type   | None                   |   |
| Delivery program   |                        |   |
| Application  |                        | ct - Switchgear for industrial and advanced commercial applications<br>shgear for industrial and advanced commercial applications |
| Number of poles  | Three                  | e-pole  |
| Number of poles (total)                                      | 3                      |   |
| Number of poles (protected)                                  | 3                      |   |
| Tripping characteristic                                      | С                      |   |
| Release characteristic                                       | С                      |   |
| Amperage Rating  | 100 A                  |   |
| Туре   | Minia<br>AZ            | ture circuit breaker  |
| Technical Data - Electrical                                  |                        |   |
| Voltage type   | AC                     |   |
| Voltage rating   | 230 V                  | AC / 400 V AC   |
| Voltage rating at DC   | 60 V I                 | DC (per pole)   |
| Rated operational voltage (Ue) - max                         | 400 V                  |   |
| Rated insulation voltage (Ui)                                | 440 V                  |   |
| Rated impulse withstand voltage (Uimp)                       | 4 kV                   |   |
| Frequency rating - min                                       | 50 Hz                  |   |
| Frequency rating - max                                       | 60 Hz                  |   |
| Rated switching capacity (IEC/EN 60947-2)                    | 20 kA                  |   |
| Operational switching capacity                               | 20 kA                  |   |
| Rated short-circuit breaking capacity (EN 60898) at 230 V    | 0 kA                   |   |
| Rated short-circuit breaking capacity (EN 60898) at 400 V    | 0 kA                   |   |
| Rated short-circuit breaking capacity (IEC 60947-2) at 230 V | 20 kA                  |   |
| Rated short-circuit breaking capacity (IEC 60947-2) at 400 V | 20 kA                  |   |
| Admissible back-up fuse - max                                | 200 A                  | gL/gG   |
| Selectivity class  | 3                      |   |
| Lifespan, electrical   | 10000                  | operations  |
| Overvoltage category   |                        |   |
| Pollution degree   | 2                      |   |
| Direction of incoming supply                                 | As re                  | quired  |
| Technical Data - Mechanical                                  |                        |   |
| Frame  | 45 mr                  | n   |
|  |                        |   |

| Enclosure width 90 mm   Width in number of modular spacings 4.5   Built-in depth 75 mm   Mounting width per pole 27 mm   Mounting width per pole 27 mm   Mounting width 75 mm   Degree of protection 1940 (when fitted)   IP20 1940 (when fitted)   IP20 25 mm <sup>2</sup> Connectable conductor cross section (solid-core) - min 25 mm <sup>2</sup> Connectable conductor cross section (solid-core) - max 50 mm <sup>2</sup> Connectable conductor cross section (mult-wired) - max 50 mm <sup>2</sup> Connectable conductor cross section (mult-wired) - max 50 mm <sup>2</sup> Connectable conductor cross section (mult-wired) - max 50 mm <sup>2</sup> Connectable conductor cross section (mult-wired) - max 50 mm <sup>2</sup> Terminal capacity (control cable) 100 A   Terminal capacity (control cable) 100 A   Rated operational current-fore pendent 0W   Heat dissipation, nor-current-dependent 25 °C   Static heat dissipation, current-dependent 25 °C   Design verification as per IEC/EN 61439 50 °C   Design verificatio   |             |
|---|-------------|
| Built-in depth   75 mm     Mounting width per pole   27 mm     Mounting width   27 mm     Mounting width   27 mm     Mounting width   70-hat rail EC/EN 60715     Degree of protection   1240 (when fitted)     Terminals (top and bottom)   Lift terminals     Connectable conductor cross section (solid-core) - min   2.5 mm <sup>2</sup> Connectable conductor cross section (multi-wired) - min   2.5 mm <sup>2</sup> Connectable conductor cross section (multi-wired) - max   50 mm <sup>2</sup> Connectable conductor cross section (multi-wired) - max   50 mm <sup>2</sup> Connectable conductor cross section (multi-wired) - max   50 mm <sup>2</sup> Connectable conductor cross section (multi-wired) - max   50 mm <sup>2</sup> Terminal capacity (control cable)   2.5 mm <sup>2</sup> 50 mm <sup>2</sup> Terminal protection   00 M     Rated operational current for specified heat dissipation (In)   100 A     Heat dissipation, current-dependent   0 W     Equipment heat dissipation, current-dependent   0 W     Ambient operating temperature - min   -25 °C     Ambient operating temperature - min   -25 °C     ID223 Orosion resistance   Meets the product standard's requirements.  |             |
| Mounting width per pole27 mmMounting width27 mmMounting Wethod27 mmDegree of protectionTop-hat rail IEC/EN 60715Degree of protectionIP40 (when fitted)<br>IP20Terminals (top and bottom)Lift terminalsConnectable conductor cross section (solid-core) - max25 mm²Connectable conductor cross section (multi-wired) - min25 mm²Connectable conductor cross section (multi-wired) - min25 mm²Connectable conductor cross section (multi-wired) - max50 mm²Terminal capacity (control cable)Terminal capacity (control cable)Terminal protection100 ARated operational current for specified heat dissipation (n)100 AHeat dissipation, non-current-dependent0WStatic heat dissipation, non-current-dependent0WAmbient operating temperature - min-25 °CAmbient operating temperature - max0W102.2 Corrosion resistance102.3 Verification as per IEC/EN 61439102.2 Corrosion resistance102.3 Verification of terminal stability of enclosures102.3 Verification of terminal stability of enclosuresMeets the product standard's requirements.102.3 Verification of sesistance of insulting materials to normal heatMeets the product standard's requirements. <tr< td=""><td></td></tr<>  |             |
| Mounting width     27 mm       Mounting Method     Top-hat rail IEV/EN 60715       Degree of protection     IP40 (when fitted)<br>IP20       Terminals (top and bottom)     Lift terminals       Connectable conductor cross section (solid-core) - min     2.5 mm <sup>3</sup> Connectable conductor cross section (multi-wired) - min     50 mm <sup>4</sup> Connectable conductor cross section (multi-wired) - max     50 mm <sup>4</sup> Connectable conductor cross section (multi-wired) - max     50 mm <sup>4</sup> Connectable conductor cross section (multi-wired) - max     50 mm <sup>4</sup> Terminal capacity (control cable)     2.5 mm <sup>3</sup> - 50 mm <sup>2</sup> Terminal protection     Finger and hand touch safe, DGUV VS3, EN 50274       Design verification as per IEC/EN 61439 - technical data     100 A       Rated operational current for specified heat dissipation (In)     0W       Heat dissipation, non-current-dependent     0W       Equipment heat dissipation, non-current-dependent     25 °C       Ambient operating temperature - min     25 °C       Ambient operating temperature - min     25 °C       Ambient operating temperature - min     25 °C       102.2 Corrosion resistance     Meets the product standard's requirements.  |             |
| Mounting Method     Top-hat rail IEC/EN 60715       Degree of protection     P40 (when fitted)<br>IP20       Terminals (top and bottom)     Lift terminals       Connectable conductor cross section (solid-core) - max     50 mm <sup>3</sup> Connectable conductor cross section (multi-wired) - max     50 mm <sup>3</sup> Connectable conductor cross section (multi-wired) - max     50 mm <sup>3</sup> Connectable conductor cross section (multi-wired) - max     50 mm <sup>3</sup> Connectable conductor cross section (multi-wired) - max     50 mm <sup>3</sup> Connectable conductor cross section (multi-wired) - max     50 mm <sup>3</sup> Connectable conductor cross section (multi-wired) - max     50 mm <sup>3</sup> Terminal capacity (control cable)     50 mm <sup>3</sup> Terminal capacity (control cable)     Finger and hand touch safe, DGUV VS3, EN 50274       Rated operational current for specified heat dissipation (In)     100 A       Heat dissipation current-dependent     0W       Static heat dissipation, current-dependent     0W       Heat dissipation capacity     0W       Ambient operating temperature - max     55 °C       Design verification as per IEC/EN 61439     Meets the product standard's requirements.       102.23 Verification of thermal stability of enclosures <td></td>   |             |
| Degree of protectionP40 (when fitted)<br>IP20Terminals (top and bottom)Lift terminalsConnectable conductor cross section (solid-core) - min25 mm²Connectable conductor cross section (solid-core) - max50 mm²Connectable conductor cross section (multi-wired) - min25 mm²Connectable conductor cross section (multi-wired) - max50 mm²Terminal capacity (control cable)100 ATerminal protection0WBated operational current for specified heat dissipation (In)0WHeat dissipation, our-ent-dependent0WEquipment heat dissipation, on-current-dependent0WHeat dissipation, on-current-dependent0WAmbient operating temperature - min-25 °CAmbient operating temperature - min-25 °C102.23 I verification as per IEC/EN 61439Meets the product standard's requirements.102.23 I Verification of thermal stability of enclosuresMeets the product standard's requirements.102.33 Resit. of insul. mat to abnormal heat/fire by internal elect. effectsMeets the product standard's requirements.  |             |
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| 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects Meets the product standard's requirements.   |             |
|   |             |
|   |             |
| 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements.   |             |
| 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated.   |             |
| 10.2.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated.   |             |
| 10.2.7 Inscriptions Meets the product standard's requirements.  |             |
| 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated.  |             |
| 10.4 Clearances and creepage distances Meets the product standard's requirements.   |             |
| 10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated.   |             |
| 10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated.   |             |
| 10.7 Internal electrical circuits and connections Is the panel builder's responsibility.  |             |
| 10.8 Connections for external conductors Is the panel builder's responsibility.   |             |
| 10.9.2 Power-frequency electric strength Is the panel builder's responsibility.   |             |
| 10.9.3 Impulse withstand voltage  |             |
| 10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility.   |             |
| 10.10 Temperature rise   The panel builder is responsible for the temperature rise calculation. E provide heat dissipation data for the devices.  | aton will   |
| 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchg observed.  | ear must be |
| 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchg observed.   | ear must be |
| 10.13 Mechanical function The device meets the requirements, provided the information in the instantial leaflet (IL) is observed.   |             |
| Additional information  | truction    |
| Current limiting class 3  | struction   |
| Features Additional equipment possible  | struction   |
| Special features Ambient temperature hint: a 1 °C increase results in a 0.5% linear reducurrent carrying capacity   | struction   |
| Used with Miniature circuit breaker AZ  |             |

## Technical data ETIM 9.0

| Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)                  |                          |  |
|---|--------------------------|--|
| Electric engineering, automation, process control engineering / Electrical installatio [AAB905019]) | n, device / Miniature ci | rcuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss13-27-14-19-01 |
| Built-in depth  | mm                       | 75   |
| Release characteristic  |                          | C  |
| Number of poles (total)   |                          | 3  |
| Number of protected poles   |                          | 3  |
| Rated current   | А                        | 100  |
| Rated voltage   | V                        | 400  |
| Rated insulation voltage Ui   | V                        | 440  |
| Rated impulse withstand voltage Uimp  | kV                       | 4  |
| Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V                            | kA                       | 0  |
| Voltage type  |                          | AC   |
| Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V                            | kA                       | 0  |
| Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V                         | kA                       | 20   |
| Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$                      | kA                       | 20   |
| Frequency   | Hz                       | 50 - 60  |
| Power loss  | W                        |  |
| Current limiting class  |                          | 3  |
| Flush-mounted installation  |                          | No   |
| Concurrently switching neutral conductor  |                          | No   |
| Over voltage category   |                          | 3  |
| Pollution degree  |                          | 2  |
| Additional equipment possible   |                          | Yes  |
| Width in number of modular spacings   |                          | 4.5  |
| Degree of protection (IP)   |                          | IP20   |
| Ambient temperature during operating  | °C                       | -25 - 55   |
| Connectable conductor cross section multi-wired   | mm²                      | 2.5 - 50   |
| Connectable conductor cross section solid-core  | mm²                      | 2.5 - 50   |
| Explosion-proof   |                          | No   |
|   |                          |  |