Miniature circuit breaker (MCB), 32A, 4p, C-Char

Powering Business Worldwide*

Part no. AZ-4-C32
Catalog No. 211782
Alternate Catalog AZ-4-C32

140

Similar to illustration

| Delivery program | | | |
|---|-----------------|----|--|
| Basic function | | | Miniature circuit-breakers |
| Number of poles | | | 4 pole |
| Tripping characteristic | | | C |
| Application | | | Switchgear for industrial and advanced commercial applications |
| Rated current | In | Α | 32 |
| Rated switching capacity acc. to IEC/EN 60947-2 | I _{cu} | kA | 25 |
| Product range | | | AZ |

Technical data

| _ | | |
|---|----------|--|
| | antrina | |
| ы | ectrical | |

| Standards | | | EN 45545-2; IEC 61373 |
|---|-----------------|-----------------|---|
| Rated operational voltage | U _e | V | |
| | U _e | V AC | 230/400 |
| | | V DC | 60 (per pole) |
| Rated switching capacity acc. to IEC/EN 60947-2 | I _{cu} | kA | 25 |
| Operational switching capacity | | kA | 20 |
| Characteristic | | | Similar: D, C |
| Max. back-up fuse | | A gL/gG | 200 |
| Selectivity Class | | | Compliant with Class 3 |
| lifespan | | | |
| Lifespan | Operations | | > 10000 |
| Direction of incoming supply | | | as required |
| Mechanical | | | |
| Standard front dimension | | mm | 45 |
| Enclosure height | | mm | 90 |
| Mounting width per pole | | mm | 27 |
| Mounting | | | IEC/EN 60715 top-hat rail |
| Degree of Protection | | | IP20, IP40 (when fitted) |
| Terminals top and bottom | | | Lift terminals |
| Terminal protection | | | Finger and back-of-hand proof to BGV A2 |
| Terminal capacities | | mm ² | |
| | | mm^2 | 2.5 50 |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|-------------------|----|---|
| Rated operational current for specified heat dissipation | In | Α | 32 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 11.75 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 0 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 55 |
| | | | linear, per +1 °C, results in a 0.5% reduction of current carrying capacity |

| IEC/EN 61439 design verification | |
|--|--|
| 10.2 Strength of materials and parts | |
| 10.2.2 Corrosion resistance | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | Meets the product standard's requirements. |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties | |
| 10.9.2 Power-frequency electric strength | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | Is the panel builder's responsibility. |
| 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. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
| 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. Is the panel builder's responsibility. The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder's responsibility. The specifications for the switchgear must be observed. Is the panel builder's responsibility. The specifications for the switchgear must be observed. The device meets the requirements, provided the information in the instruction |

Technical data ETIM 8.0

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

| (ecl@ss10.0.1-27-14-19-01 [AAB905014]) | .01.00 / 11 | |
|---|-------------|----------|
| Built-in depth | mm | 75 |
| Release characteristic | | С |
| Number of poles (total) | | 4 |
| Number of protected poles | | 4 |
| Rated current | Α | 32 |
| 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 | 25 |
| Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V | kA | 25 |
| Frequency | Hz | 50 - 60 |
| Current limiting class | | 3 |
| Flush-mounted installation | | No |
| Concurrently switching neutral conductor | | Yes |
| Over voltage category | | 3 |
| Pollution degree | | 2 |
| Additional equipment possible | | Yes |
| Width in number of modular spacings | | 6 |
| 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 |