DATASHEET - FAZ-C63/3

Miniature circuit breaker (MCB), 63 A, 3p, characteristic: C





Part no. FAZ-C63/3 Catalog No. 278879 Alternate Catalog FAZ-C63/3 No. EL-Nummer 1695188 (Norway)

Similar to illustration

Delivery program

| Basic function | | | Miniature circuit-breakers |
|---|-----------------|----|--|
| Number of poles | | | 3 pole |
| Tripping characteristic | | | C |
| Application | | | Switchgear for industrial and advanced commercial applications |
| Rated current | In | А | 63 |
| Rated switching capacity acc. to IEC/EN 60947-2 | l _{cu} | kA | 15 |
| Product range | | | FAZ |

Technical data

| Shandards Since Series Since Series <th></th> <th></th> <th></th> <th></th> | | | | |
|--|---|-----------------|-----------------|---|
| Red operational worksome Vert ECEN MODERSE Red operational worksome Vert Vert Vert Red operational worksome Vert Vert Vert Vert Red operational worksome Vert Vert< | Electrical | | | |
| Image: space of the state of | Standards | | | IEC/EN 60898 |
| Image: second | Rated operational voltage | U _e | V | |
| Rade values according to ULVnVAC80/277Rede switching capacity acc. to IE/EN 60947-2Ka1Derational switching capacity according to ULKa1/1077Operational switching capacityKa5CharacteristicKa8/200Max. back-up fuseKa8/200Selectivity ClassForemone100IrespanVerture1000Direction of incoming supplyVerture1000Direction of incoming supplyForemone1000Backard fut diremsionForemone1000Bounding with propleForemone1000Direction of incoming supplyForemone1000Direction of incoming supplyForem | | Ue | V AC | 240/415 |
| Red switching capacity acc utile KP60894-2RuRuRiBeaking capacity acc utile KP60894-2KKKDerational switching capacityKKKDaracteristicKKKKMax back-up fuseKKKKSelectivity ClassKKKKIdegainKKKKIdegainKKKKDirection floction functioningKKKKRechardialKKKKSudderf ford functioningKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKK< | | | V DC | 60 (per pole) |
| Beaking capacity according to UL KI KU1077 Operational switching capacity KI Subscription Characteristic KI Subscription Max. back-up fuse KI Subscription Subscription KI Subscription Iteratoristic KI Subscription Subscription KI Subscription Iteratoristic Subscription Subscription Iteratoristic Subscription Subscription Subscription Subscretoninals Subscription <td>Rated voltage according to UL</td> <td>Un</td> <td>V AC</td> <td>480Y/277</td> | Rated voltage according to UL | Un | V AC | 480Y/277 |
| Appendional synchronizationA mathematicationA mathematication< | Rated switching capacity acc. to IEC/EN 60947-2 | l _{cu} | kA | 15 |
| CharacteristicKeyKeyKeyKeyMax back-up fuseKeySelectivity ClassSelectivity Cla | Breaking capacity according to UL | | kA | 5 (UL1077) |
| As back-up fuse Ag Jog Is an and the second | Operational switching capacity | | kA | 7.5 |
| Selectivity Class March Jame Jame <td>Characteristic</td> <td></td> <td></td> <td>B, C, D, K, S, Z</td> | Characteristic | | | B, C, D, K, S, Z |
| Ideam Instance Instance Instance Instance Direction of incoming supply Operations is required Mechanical Instance is required Standard front dimension Instance Instance Buoting with perple Instance Instance Mounting Instance Instance Digree of Protection Instance Instance Terminal stop and bottom Instance Instance Terminal capacities Instance Instance Instance Instance< | Max. back-up fuse | | A gL/gG | 125 |
| Lifespan Operations Image: Section of incoming supply Sectin of incoming Sectin of incoming supply | Selectivity Class | | | 3 |
| Direction of incoming supply incoming supply arequired Mechanical Standard front dimension Mm \$ Standard front dimension mm \$ \$ Dicosure height mm \$ \$ \$ Mounting width per pole mm \$ | lifespan | | | |
| Mechanical mm 5 Standar front dimension mm 6 mm 6 Enclosure height mm 0 15 15 Mounting width per pole Mm 15 16/to Ko715 top-hat rail 16/to Ko715 top-hat rail Degree of Protection Ferni all protection Ferni all protection 16/to Ko715 top-hat rail 16/to Ko715 top-hat rail Terminal protection Ferni all pro | Lifespan | Operations | | > 10000 |
| Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 15.5 Mounting EC/EN 60715 top-hat rail 100 Degree of Protection FM 120,1P40 (when fitted) Terminal stop and bottom FM 120,1P40 (when fitted) Terminal capacities mm 125 Terminal capacities mm 120,10000000000000000000000000000000000 | Direction of incoming supply | | | as required |
| Enclosure height mm 80 Mounting width per pole mm 1.5 Mounting IEC/EN 60715 top-hat rail IEC/EN 60715 top-hat rail Degree of Protection FMM 1.62 Terminals top and bottom FMM FMM Terminal capacities FMM FMM Terminal capacities FMM FMM Terminal capacities FMM 1.42 Terminal capacities | Mechanical | | | |
| Mounting width per pole Mounting 1.5 Mounting IC/EN 60715 top-hat rail Degree of Protection F00, IP40 (when fitted) Terminal stop and bottom F00, IP40 (when fitted) Terminal capacities man ² Function man ² Interminal capacities man ² | Standard front dimension | | mm | 45 |
| Mounting Image: Ima | Enclosure height | | mm | 80 |
| Degree of Protection Image: Base of the sector of the se | Mounting width per pole | | mm | 17.5 |
| Terminals top and bottom Image: Base of the sector of th | Mounting | | | IEC/EN 60715 top-hat rail |
| Terminal protection Image: market of the sector of the s | Degree of Protection | | | IP20, IP40 (when fitted) |
| Terminal capacities ma ² Imma ² | Terminals top and bottom | | | Twin-purpose terminals |
| Image: marge state stat | Terminal protection | | | Finger and back-of-hand proof to BGV A2 |
| Imm ² 2 × 10 Thickness of busbar material mm 0.8 2 | Terminal capacities | | mm ² | |
| Thickness of busbar material mm 0.8 2 | | | mm ² | 1 x 25 |
| | | | mm ² | 2 x 10 |
| | | | | |
| Mounting position As required | Thickness of busbar material | | mm | 0.8 2 |
| | Mounting position | | | As required |

Design verification as per IEC/EN 61439

| Technical data for design verification |
|--|
|--|

А

63

I_n

| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
|--|-------------------|----|--|
| | | | |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 17.2 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 0 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -40 |
| Operating ambient temperature max. | | °C | 75 |
| | | | 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. |

Technical data ETIM 7.0

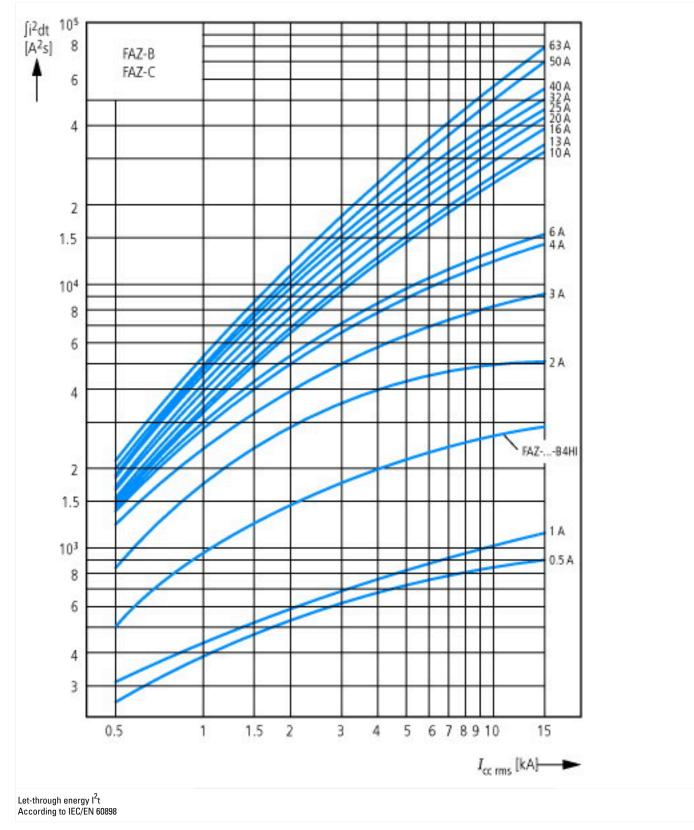
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

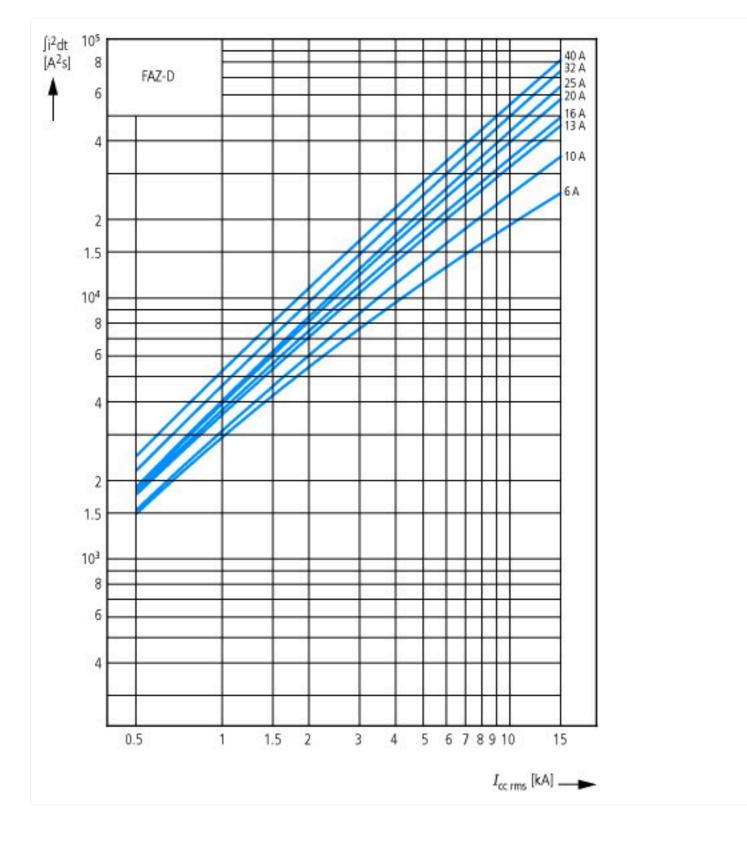
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

| Release characteristic | | С |
|--|----|---------|
| Number of poles (total) | | 3 |
| Number of protected poles | | 3 |
| Rated current | А | 63 |
| Rated voltage | V | 400 |
| Rated insulation voltage Ui | V | 440 |
| Rated impulse withstand voltage Uimp | kV | 4 |
| Rated short-circuit breaking capacity Icn EN 60898 at 230 V | kA | 10 |
| Rated short-circuit breaking capacity Icn EN 60898 at 400 V | kA | 10 |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V | kA | 15 |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V | kA | 15 |
| Voltage type | | AC |
| Frequency | Hz | 50 - 60 |
| Current limiting class | | 3 |
| Suitable for flush-mounted installation | | No |
| Concurrently switching N-neutral | | No |
| | | |

| Over voltage category | | 3 |
|---|-----------------|----------|
| Pollution degree | | 2 |
| Additional equipment possible | | Yes |
| Width in number of modular spacings | | 3 |
| Built-in depth | mm | 70.5 |
| Degree of protection (IP) | | IP20 |
| Ambient temperature during operating | °C | -25 - 75 |
| Connectable conductor cross section multi-wired | mm ² | 1 - 25 |
| Connectable conductor cross section solid-core | mm ² | 1 - 25 |

Characteristics



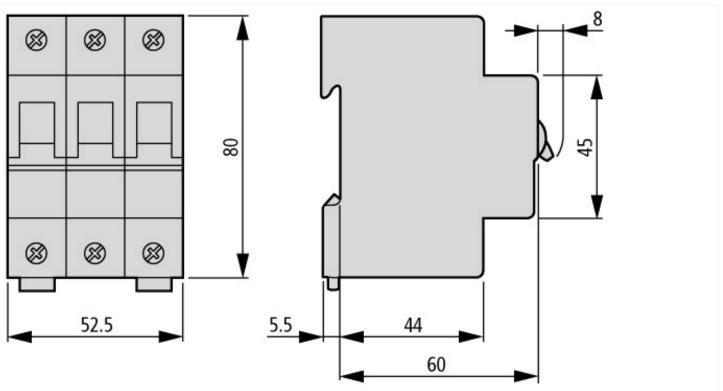








Dimensions



Additional product information (links)

Temperature dependency, derating

https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ.pdf