DATASHEET - FAZ-B40/2-DC

General specifications

Miniature circuit breaker (MCB), 40 A, 2p, characteristic: B, DC



Eaton Moeller series xEffect - FAZ-DC MCB

FAZ-B40/2-DC 4015081712816 80 millimetre 75.5 millimetre 36 millimetre 0.233 kilogram **RoHS** conform IEC 61373 EN45545-2

xEffect - FAZ-DC

MCB None

| Part no. | FAZ-B40/2-DC 176085 |
|-----------|------------------------|
| EL Number | 1605734 |
| (Norway) | |

| Product name |
|----------------------|
| Part no. |
| EAN |
| Product Length/Depth |
| Product height |
| Product width |
| Product weight |
| Compliances |
| Certifications |
| Product Tradename |
| Product Type |
| Product Sub Type |

Delivery program

| Application | Switchgear for DC applications |
|-----------------------------|-------------------------------------|
| Number of poles | Two-pole |
| Number of poles (total) | 2 |
| Number of poles (protected) | 2 |
| Tripping characteristic | В |
| Release characteristic | В |
| Amperage Rating | 40 A |
| Туре | FAZ-DC Miniature circuit breaker |

| Technical Data - Electrical | |
|---|--------------------|
| Voltage type | DC |
| Rated operational voltage (Ue) - max | 500 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) | 10 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 | 10 kA |
| Rated short-circuit breaking capacity (IEC 60947-2) at 400 V | 10 kA |
| Overvoltage category | III. |
| Pollution degree | 2 |
| Technical Data - Mechanical | |
| Width in number of modular spacings | 2 |
| Built-in depth | 70.5 mm |
| Degree of protection | IP20 |
| Connectable conductor cross section (solid-core) - min | 1 mm ² |
| Connectable conductor cross section (solid-core) - max | 25 mm ² |
| Connectable conductor cross section (multi-wired) - min | 1 mm ² |
| Connectable conductor cross section (multi-wired) - max | 25 mm ² |
| Design verification as per IEC/EN 61439 - technical data | |
| Rated operational current for specified heat dissipation (In) | 40 A |

| Heat dissipation per pole, current-dependent | 0 W |
|--|--|
| Equipment heat dissipation, current-dependent | 7.5 W |
| Static heat dissipation, non-current-dependent | 0 W |
| Heat dissipation capacity | 0 W |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 75 °C |
| Design verification as per IEC/EN 61439 | |
| 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 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 | 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. |
| Additional information | |
| Current limiting class | 3 |
| Features | Additional equipment possible |
| Special features | Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity |
| Used with | Miniature circuit breaker FAZ-DC |

Technical data ETIM 9.0

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@ss13-27-14-19-01 [AAB905019])

| Built-in depth | mm | 70.5 |
|--|----|---------|
| Release characteristic | | В |
| Number of poles (total) | | 2 |
| Number of protected poles | | 2 |
| Rated current | А | 40 |
| Rated voltage | V | 500 |
| 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 | | DC |
| 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 $$ | kA | 10 |
| Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$ | kA | 10 |
| Frequency | Hz | 50 - 60 |

| Power loss | V | N | 8.1 |
|---|---|-----|----------|
| 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 | | | 2 |
| Degree of protection (IP) | | | IP20 |
| Ambient temperature during operating | ٥ | °C | -25 - 75 |
| Connectable conductor cross section multi-wired | n | mm² | 1 - 25 |
| Connectable conductor cross section solid-core | n | mm² | 1 - 25 |
| Explosion-proof | | | No |