DATASHEET - FAZ-C3/1


Miniature circuit breaker (MCB), 3 A, 1p, characteristic: C

Part no.
FAZ-C3/1
Powering Business Worldwide"
Catalog No.
278551
Alternate Catalog
FAZ-C3/1
No.
EL-Nummer
000169108
(Norway)

Similar to illustration

## Delivery program

Basic function
Number of poles
Tripping characteristic
Application
Rated current
Rated switching capacity acc. to IEC/EN 60947-2
Product range

## Technical data

Electrical
Standards

Rated operational voltage

Rated voltage according to UL
Rated switching capacity acc. to IEC/EN 60947-2
Breaking capacity according to UL
Max operational voltage according to IEC/EN 60947-2
Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)
Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage)

Rated voltage according to IEC/EN 60898-1
Rated switching capacity according to IEC/EN 60898-1
Rated service short-circuit breaking capacity according to IEC/EN 60898-1
Operational switching capacity
Characteristic
Max. back-up fuse
Selectivity Class
lifespan

## Lifespan

Direction of incoming supply
Mechanical
Standard front dimension
Enclosure height
Mounting width per pole
Mounting
Degree of Protection
Terminals top and bottom
Terminal protection
Terminal capacities

Miniature circuit-breakers
1 pole
C
Switchgear for industrial and advanced commercial applications

|  | Miniature circuit-breakers |  |
| :--- | :--- | :--- |
|  | 1 pole |  |
|  | C |  |
|  |  | Switchgear for industrial and advanced commercial applications |
| $I_{n}$ | A | 3 |
| $\mathrm{I}_{\mathrm{cu}}$ | kA | 15 |
|  |  | FAZ |


|  |  | Miniature circuit-breakers |
| :---: | :---: | :---: |
|  |  | 1 pole |
|  |  | C |
|  |  | Switchgear for industrial and advanced commercial applications |
| $I_{n}$ | A | 3 |
| $I_{\text {cu }}$ | kA | 15 |
|  |  | FAZ |

FAZ
IEC/EN 60947-2
IEC/EN 60898
mm $\quad 45$
$\mathrm{mm} \quad 80$
mm $\quad 17.5$
IEC/EN 60715 top-hat rail
IP20, IP40 (when fitted)
Twin-purpose terminals
Finger and back-of-hand proof to BGV A2
$\mathrm{mm}^{2}$
$\mathrm{mm}^{2} \quad 1 \times 25$
$0.8 \ldots 2$
As required

## Design verification as per IEC/EN 61439

| Technical data for design verification |  |  |  |
| :---: | :---: | :---: | :---: |
| Rated operational current for specified heat dissipation | $I_{n}$ | A | 3 |
| Heat dissipation per pole, current-dependent | $\mathrm{P}_{\text {vid }}$ | W | 0 |
| Equipment heat dissipation, current-dependent | $P_{\text {vid }}$ | W | 1.2 |
| Static heat dissipation, non-current-dependent | $\mathrm{P}_{\text {vs }}$ | W | 0 |
| Heat dissipation capacity | $\mathrm{P}_{\text {diss }}$ | W | 0 |
| Operating ambient temperature min. |  | ${ }^{\circ} \mathrm{C}$ | -40 |
| Operating ambient temperature max. |  | ${ }^{\circ} \mathrm{C}$ | 75 |
|  |  |  | linear, per $+1^{\circ} \mathrm{C}$, 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 (EGOOOO20) / Miniature circuit breaker (MCB) (ECOOOO42)
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 | C |  |
| :--- | :--- | :--- |
| Number of poles (total) | A | 3 |
| Number of protected poles | V | 230 |
| Rated current | V | 440 |
| Rated voltage | kV | 4 |
| Rated insulation voltage Ui | kA | 10 |
| Rated impulse withstand voltage Uimp |  | 1 |
| Rated short-circuit breaking capacity Icn EN 60898 at 230 V |  | 4 |


| 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 |  | 1 |
| Built-in depth | mm | 70.5 |
| Degree of protection (IP) |  | IP20 |
| Ambient temperature during operating | ${ }^{\circ} \mathrm{C}$ | -25-75 |
| Connectable conductor cross section multi-wired | $\mathrm{mm}^{2}$ | 1-25 |
| Connectable conductor cross section solid-core | $\mathrm{mm}^{2}$ | 1-25 |

## Approvals

Product Standards IEC/EN 60947-2; IEC/EN 60898; EN 45545-2; IEC 61373; UL 1077; CSA-C22.2 No. 235;
CE marking
UL File No
UL Category Control No.
CSA File No.
CSA Class No.
North America Certification
Conditions of Acceptability

## Suitable for

Current Limiting Circuit-Breaker
Max. Voltage Rating
Degree of Protection

E177451
QVNU2, QVNU8
204453
3215-30
UL recognized, CSA certified
Supplementary Protector only
Branch Circuits; not as BCPD
No
277 VAC; 48 VDC
IEC: IP20; UL/CSA Type: -

Characteristics


Let-through energy $I^{2} t$
According to IEC/EN 60898

$I_{\text {cerms }}[\mathrm{kA}] \longrightarrow$


Let-through current îD
According to IEC/EN 60898



Tripping characteristic at $30^{\circ} \mathrm{C}$ :
B, C, D to IEC/EN 60898

Dimensions


