



## Over current switch, 6A, 3p, C-Char, AC

Part no. **FAZ-C6/3**  
 Article no. **278867**  
 Catalog No. **FAZ-C6/3**

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                                   | $I_n$ | A  | 6                                                              |
| Rated switching capacity acc. to IEC/EN 60947-2 |       | kA | 15                                                             |
| Product range                                   |       |    | FAZ                                                            |

## Technical data

### Electrical

|                                                 |            |         |                                |
|-------------------------------------------------|------------|---------|--------------------------------|
| Standards                                       |            |         | IEC/EN 60947-2<br>IEC/EN 60898 |
| Rated operational voltage                       | $U_e$      | V       |                                |
|                                                 | $U_e$      | V AC    | 240/415                        |
|                                                 |            | V DC    | 60 (per pole)                  |
| Rated switching capacity acc. to IEC/EN 60947-2 |            | kA      | 15                             |
| Operational switching capacity                  |            | kA      | 7.5                            |
| Characteristic                                  |            |         | B, C, D                        |
| Max. back-up fuse                               |            | A gL/gG | 125                            |
| Selectivity Class                               |            |         | 3                              |
| Lifespan                                        | Operations |         | > 10000                        |
| Direction of incoming supply                    |            |         | as required                    |

### Mechanical

|                              |  |                 |                                         |
|------------------------------|--|-----------------|-----------------------------------------|
| Standard front dimension     |  | mm              | 45                                      |
| Enclosure height             |  | mm              | 80                                      |
| Terminal protection          |  |                 | Finger and back-of-hand proof to BGV A2 |
| Mounting width per pole      |  | mm              | 17.5                                    |
| Mounting                     |  |                 | IEC/EN 60715 top-hat rail               |
| Degree of Protection         |  |                 | IP20, IP40 (when fitted)                |
| Terminals top and bottom     |  |                 | Twin-purpose terminals                  |
| Terminal capacities          |  | mm <sup>2</sup> |                                         |
|                              |  | mm <sup>2</sup> | 1 x 25                                  |
|                              |  | mm <sup>2</sup> | 2 x 10                                  |
| Thickness of busbar material |  | mm              | 0.8 ... 2                               |
| Mounting position            |  |                 | As required                             |

## Design verification as per IEC/EN 61439

|                                                          |            |    |                                                                             |
|----------------------------------------------------------|------------|----|-----------------------------------------------------------------------------|
| Technical data for design verification                   |            |    |                                                                             |
| Rated operational current for specified heat dissipation | $I_n$      | A  | 6                                                                           |
| Heat dissipation per pole, current-dependent             | $P_{vid}$  | W  | 0                                                                           |
| Equipment heat dissipation, current-dependent            | $P_{vid}$  | W  | 4.4                                                                         |
| 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 6.0

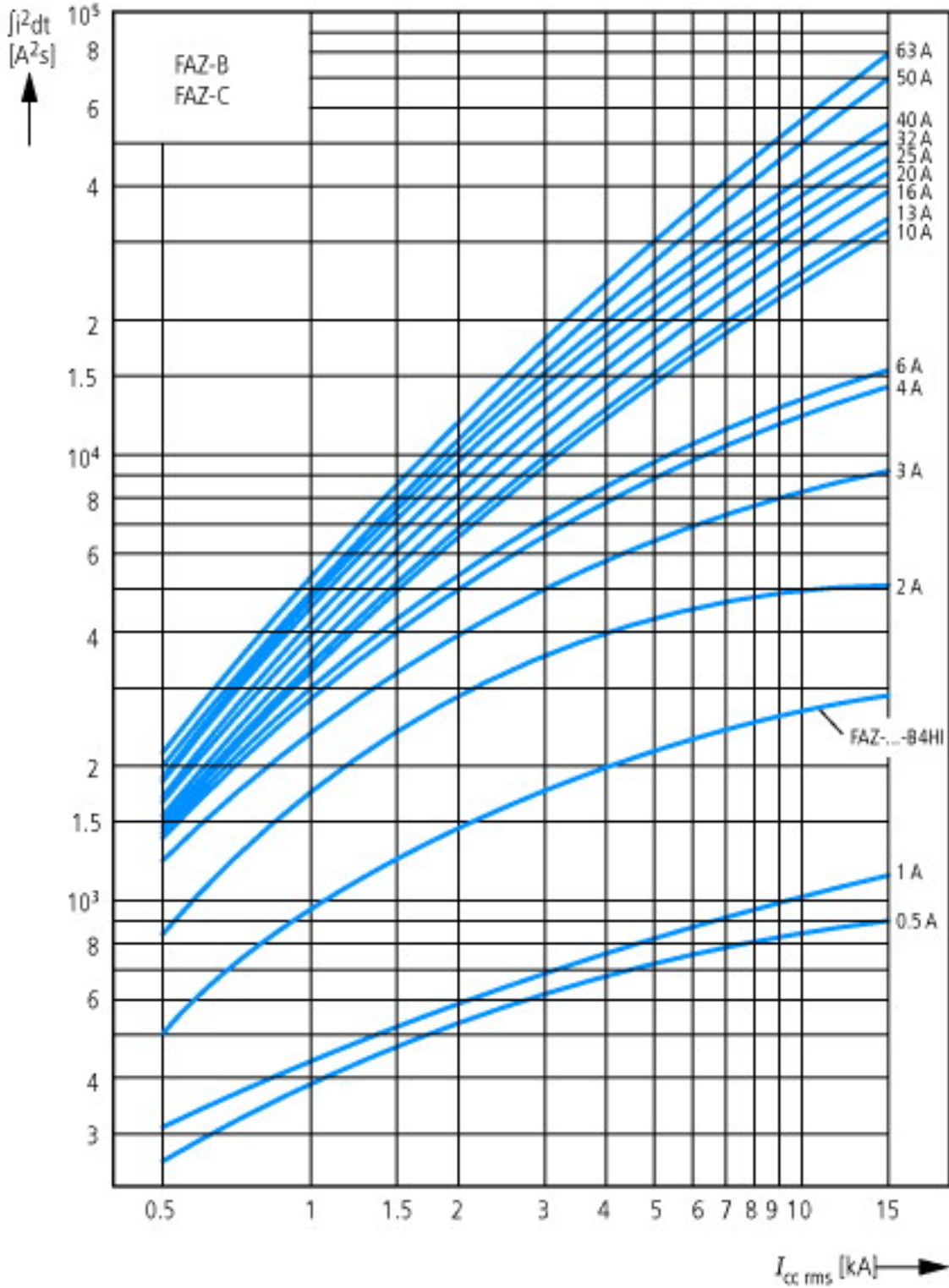
|                                                                                                                                                                                                                |    |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------|
| 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@ss8.1-27-14-19-01 [AAB905011]) |    |         |
| Release characteristic                                                                                                                                                                                         |    | C       |
| Number of poles (total)                                                                                                                                                                                        |    | 3       |
| Number of protected poles                                                                                                                                                                                      |    | 3       |
| Nominal rated current                                                                                                                                                                                          | A  | 6       |
| Nominal rated voltage                                                                                                                                                                                          | V  | 400     |
| Rated short-circuit breaking capacity I <sub>cn</sub> EN 60898 at 230 V                                                                                                                                        | kA | 10      |
| Rated short-circuit breaking capacity I <sub>cn</sub> EN 60898 at 400 V                                                                                                                                        | kA | 10      |
| Rated short-circuit breaking capacity I <sub>cu</sub> IEC 60947-2 at 230 V                                                                                                                                     | kA | 15      |
| Rated short-circuit breaking capacity I <sub>cu</sub> IEC 60947-2 at 400 V                                                                                                                                     | kA | 15      |
| Voltage type                                                                                                                                                                                                   |    | AC      |
| Current limiting class                                                                                                                                                                                         |    | 3       |
| Frequency                                                                                                                                                                                                      | Hz | 50 - 60 |
| Concurrently switching N-neutral                                                                                                                                                                               |    | No      |
| Suitable for flush-mounted installation                                                                                                                                                                        |    | No      |
| Over voltage category                                                                                                                                                                                          |    | 3       |
| Pollution degree                                                                                                                                                                                               |    | 2       |
| Width in number of modular spacings                                                                                                                                                                            |    | 3       |
| Built-in depth                                                                                                                                                                                                 | mm | 70.5    |
| Additional equipment possible                                                                                                                                                                                  |    | Yes     |
| Degree of protection (IP)                                                                                                                                                                                      |    | IP20    |

## Approvals

|                   |  |                                                                      |
|-------------------|--|----------------------------------------------------------------------|
| Product Standards |  | IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking |
| UL File No.       |  | E177451                                                              |

|                                  |  |                              |
|----------------------------------|--|------------------------------|
| UL Category Control No.          |  | QVNU2, QVNU8                 |
| CSA File No.                     |  | 204453                       |
| CSA Class No.                    |  | 3215-30                      |
| North America Certification      |  | UL recognized, CSA certified |
| Conditions of Acceptability      |  | Supplementary Protector only |
| Suitable for                     |  | Branch Circuits; not as BCPD |
| Current Limiting Circuit-Breaker |  | No                           |
| Max. Voltage Rating              |  | 480Y/277 VAC                 |
| Degree of Protection             |  | IEC: IP20; UL/CSA Type: -    |

## Characteristics



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









Tripping characteristic at 30 °C:  
 B, C, D to IEC/EN 60898

## Dimensions



## Additional product information (links)

**AWA1220-1755** Ciriuit-breaker

AWA1220-1755 Ciriuit-breaker

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/17550701.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/17550701.pdf)