



## Over current switch, 1A, 3p, D-Char, AC

Part no. **FAZ-D1/3-RT**  
 Article no. **102298**  
 Catalog No. **FAZ-D1/3-RT**

Similar to illustration

## Delivery programme

|   |       |    |  |
|---|-------|----|--|
| Basic function                                  |       |    | Miniature circuit breakers                                     |
| Number of poles                                 |       |    | 3 pole   |
| Tripping characteristic                         |       |    | D  |
| Application                                     |       |    | Switchgear for industrial and advanced commercial applications |
| Rated current                                   | $I_n$ | A  | 1  |
| Rated switching capacity acc. to IEC/EN 60947-2 |       | kA | 15   |
| Product range                                   |       |    | FAZ-RT   |

## Technical data

### Electrical

|   |            |      |  |
|---|------------|------|--|
| Standards                                       |            |      | UL 489, CSA C22.2 No. 5<br>IEC 60947-2 |
| Rated operational voltage                       | $U_e$      | V    |  |
|   | $U_e$      | V AC | 277/480 Y                              |
|   |            | V DC | 48                                     |
| Rated switching capacity acc. to IEC/EN 60947-2 |            | kA   | 15                                     |
| Characteristic                                  |            |      | B, C, D                                |
| Selectivity Class                               |            |      | 3                                      |
| Lifespan  | Operations |      | > 20000                                |
| Direction of incoming supply                    |            |      | as required                            |

### Mechanical

|                          |  |    |   |
|--------------------------|--|----|---|
| Standard front dimension |  | mm | 45                                      |
| Enclosure height         |  | mm | 105                                     |
| Terminal protection      |  |    | Finger and back-of-hand proof to BGV A2 |
| Mounting width per pole  |  | mm | 17.7                                    |
| Mounting                 |  |    | IEC/EN 60715 top-hat rail               |
| Degree of Protection     |  |    | IP20, IP40 (when fitted)                |
| Terminals top and bottom |  |    | Twin-purpose terminals                  |
| 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  | 1   |
| Heat dissipation per pole, current-dependent                               | $P_{vid}$  | W  | 0   |
| Equipment heat dissipation, current-dependent                              | $P_{vid}$  | W  | 2.3   |
| 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 | 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  |            |    |   |
| 10.2.3.1 Verification of thermal stability of enclosures                   |            |    |   |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat |            |    |   |

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|  |  |  |
|--|--|--|
| 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   |    | D       |
| Number of poles (total)  |    | 3       |
| Number of protected poles  |    | 3       |
| Nominal rated current  | A  | 1       |
| Nominal rated voltage  | V  | 415     |
| Rated short-circuit breaking capacity Icn EN 60898 at 230 V  | kA | 0       |
| Rated short-circuit breaking capacity Icn EN 60898 at 400 V  | kA | 0       |
| 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      |
| 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    |

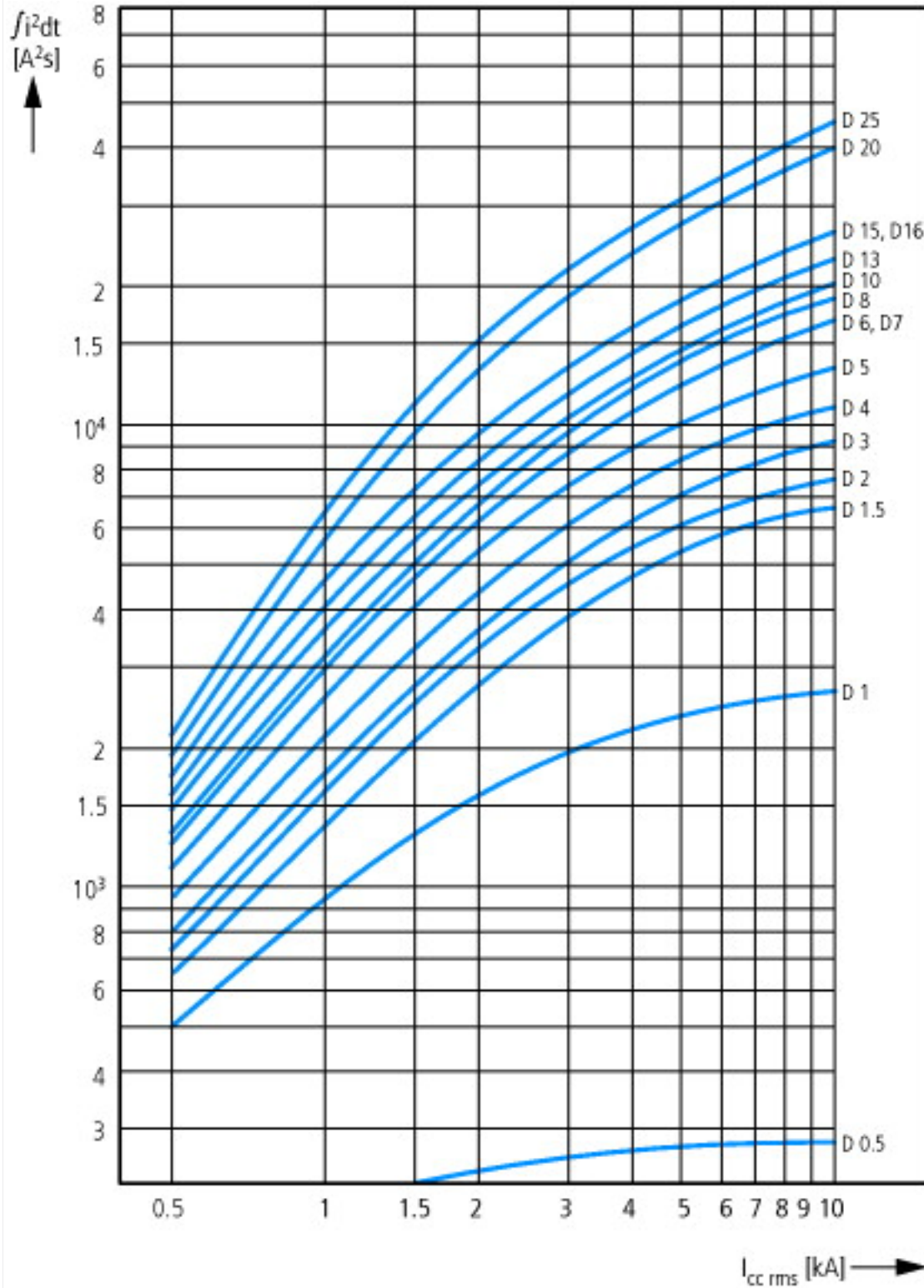
## Approvals

|                                      |  |  |
|--------------------------------------|--|--|
| Product Standards                    |  | IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking |
| UL File No.                          |  | E235139  |
| UL Category Control No.              |  | DIVQ   |
| CSA File No.                         |  | 204453   |
| CSA Class No.                        |  | 1432-01  |
| North America Certification          |  | UL listed, CSA certified                               |
| Specially designed for North America |  | Yes, suitable as MCB                                   |

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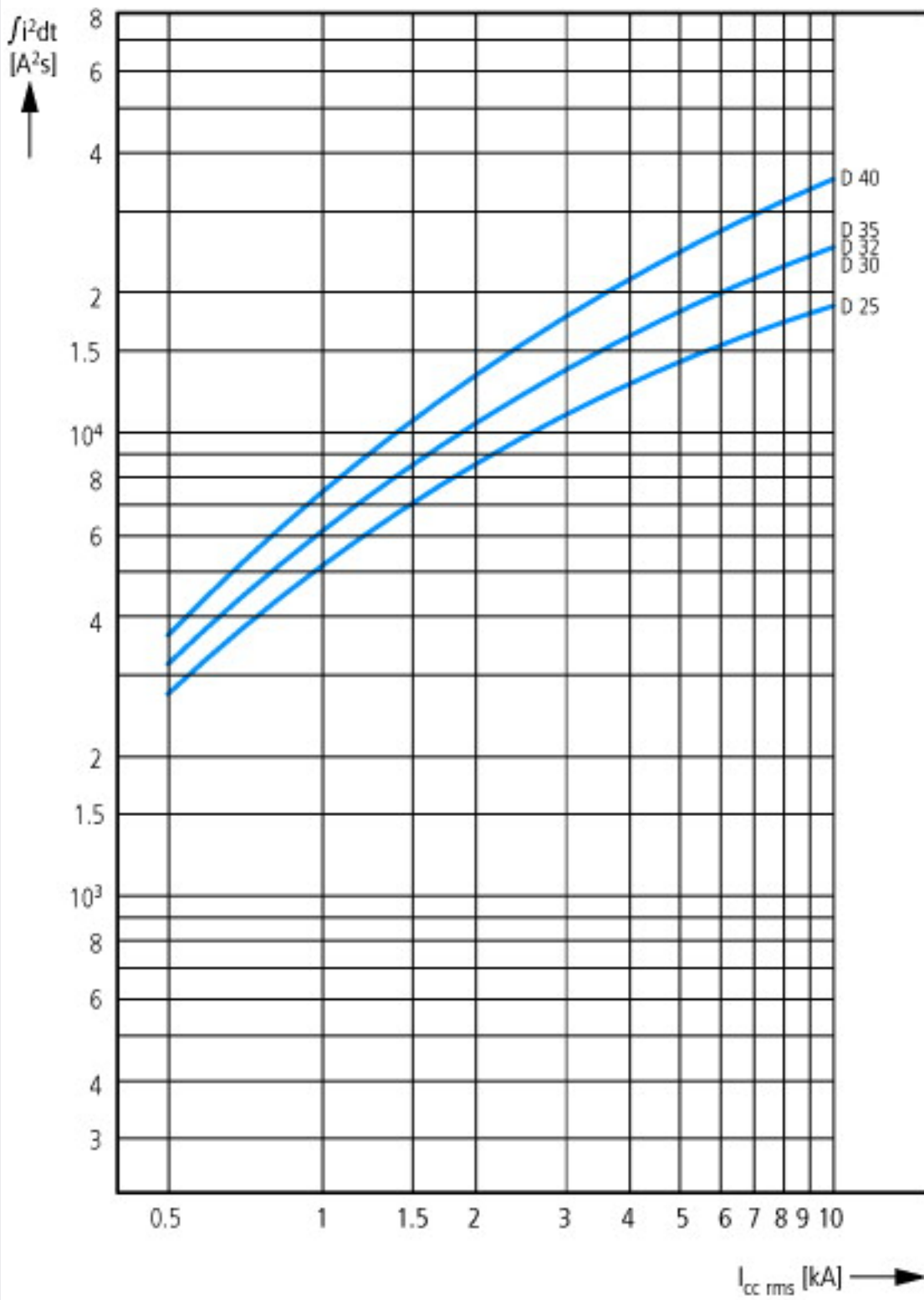
|                                  |  |                                  |
|----------------------------------|--|----------------------------------|
| Suitable for                     |  | Feeder circuits, branch circuits |
| Current Limiting Circuit-Breaker |  | Yes                              |
| Max. Voltage Rating              |  | ≤ 32 A                           |
| Degree of Protection             |  | IEC: IP20, UL/CSA Type: -        |

## Characteristics



Let-through energy  $\int i^2 dt$   
 Characteristic D (0.5 - 20 A), 277 V

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Characteristic D (25 - 40 A), 240 V