



Miniature circuit breaker (MCB), 0,5A, 3p, D-Char, AC



Part no. FAZ-D0,5/3-NA
Catalog No. 102257
Alternate Catalog No. FAZ-D0.5/3-NA
EL-Nummer (Norway) 0001691662

Similar to illustration

Delivery program

| | | | |
|-------------------------------------------------|----------|----|----------------------------------------------------|
| Basic function | | | Miniature circuit-breakers |
| Number of poles | | | 3 pole |
| Tripping characteristic | | | D |
| Application | | | Switchgear for export to North America (UL-listed) |
| Rated current | I_n | A | 0.5 |
| Rated switching capacity acc. to IEC/EN 60947-2 | I_{cu} | kA | 15 |
| Product range | | | FAZ-NA |

Technical data

Electrical

| | | | |
|-------------------------------------------------|------------|------|----------------------------------------|
| Standards | | | UL 489, CSA C22.2 No. 5 IEC 60947-2 |
| Rated operational voltage | U_e | V | |
| | U_e | V AC | 277/480 Y |
| | | V DC | 60 |
| Rated voltage according to IEC/EN 60947-2 | U_n | V AC | 415 |
| Rated voltage according to UL | U_n | V AC | 480Y/277 |
| Rated switching capacity acc. to IEC/EN 60947-2 | I_{cu} | kA | 15 |
| Characteristic | | | B, C, D |
| Selectivity Class | | | 3 |
| lifespan | | | |
| Lifespan | Operations | | > 20000 |
| Direction of incoming supply | | | as required |

Mechanical

| | | | |
|------------------------------------|--|-----|-------------------------------------------------------------------------------------------------------------|
| Standard front dimension | | mm | 45 |
| Enclosure height | | mm | 105 |
| 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 |
| Terminal protection | | | Finger and back-of-hand proof to BGV A2 |
| Tightening torque of fixing screws | | N/m | max. 2.4 UL: #18-12 AWG: 2.4 Nm (21 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in) #6 AWG: 4 Nm (36 lb-in) |
| 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 | 0.5 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 3.5 |
| 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 |

Technical data ETIM 7.0

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

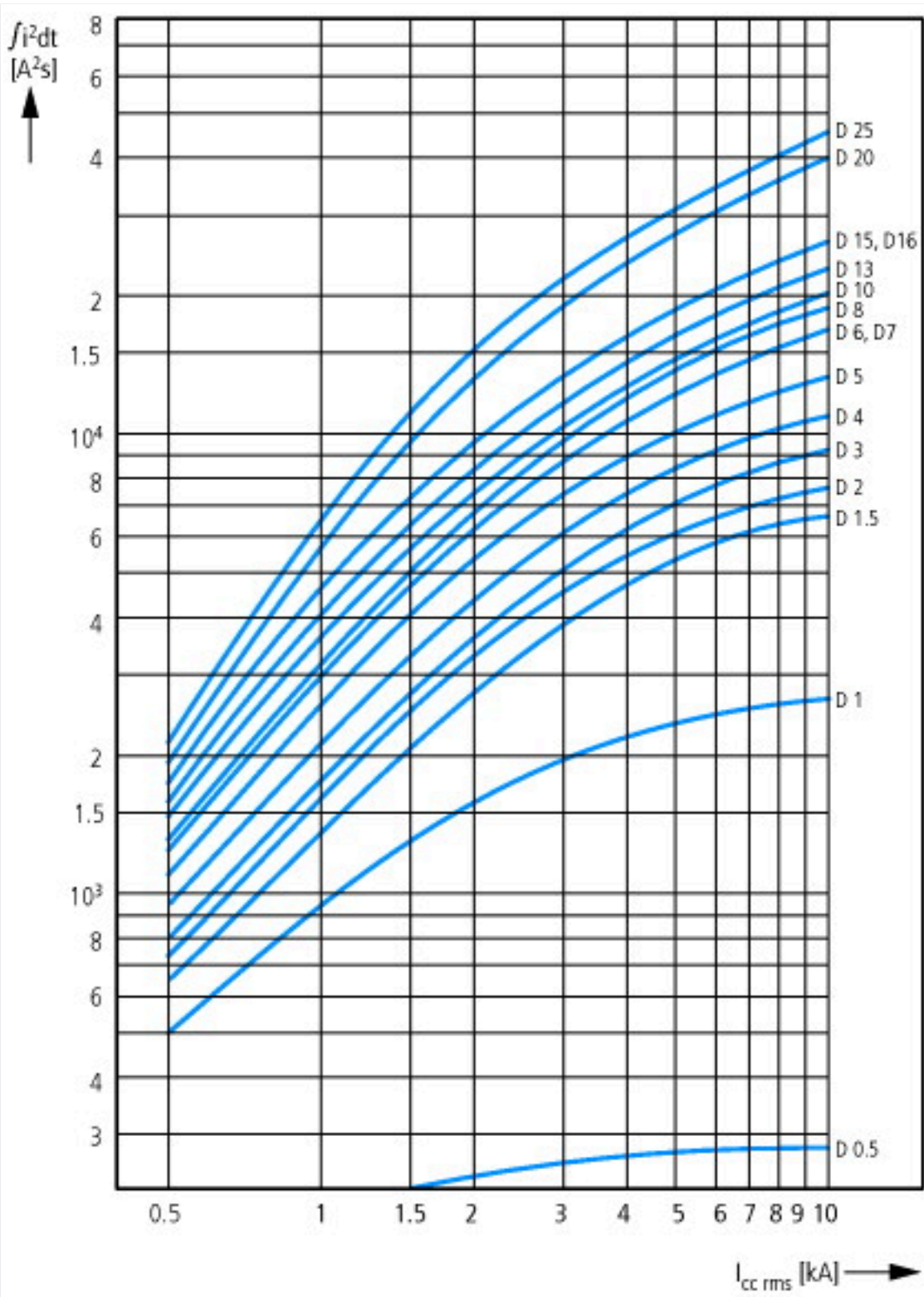
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB)
(ec1@ss10.0.1-27-14-19-01 [AAB905014])

| | | |
|----------------------------------------------------------------|-----------------|----------|
| Release characteristic | | D |
| Number of poles (total) | | 3 |
| Number of protected poles | | 3 |
| Rated current | A | 0.5 |
| Rated voltage | V | 415 |
| 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 | 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 |
| 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 |

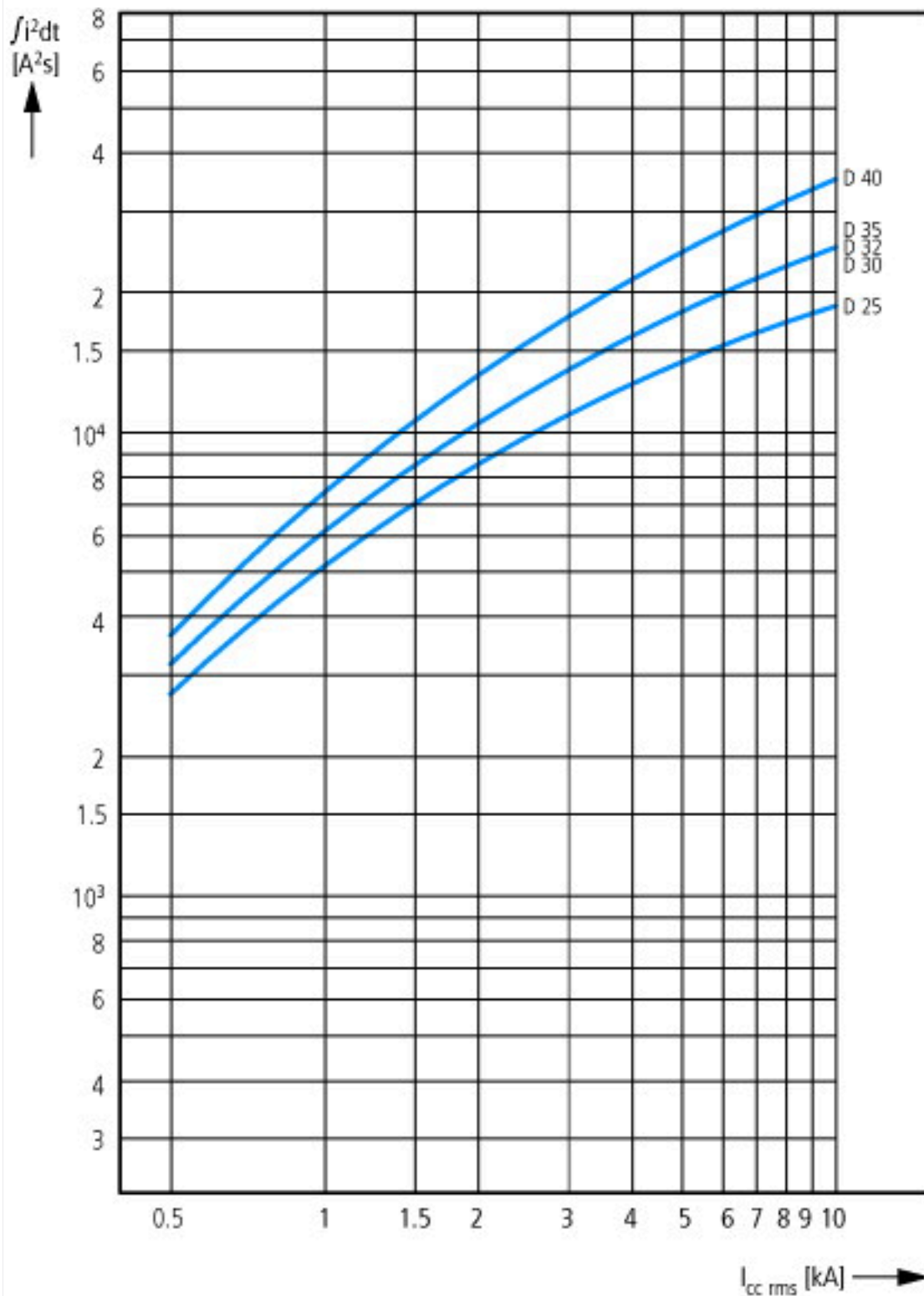
Approvals

| | | |
|--------------------------------------|--|--------------------------------------------------------|
| 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 BCPD |
| 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 i^2t
Characteristic D (0.5 - 20 A), 277 V



Characteristic D (25 - 40 A), 240 V

Additional product information (links)

Temperature dependency, derating

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