

# Over current switch, 2A, 1p, S-Char, AC

**Part no.** FAZ-S2/1
**Article no.** 278607
**Catalog No.** FAZ-S2/1

Similar to illustration

## Delivery programme

| | | | |
|---|---|---|---|
| Basic function | | | Miniature circuit breakers |
| Pole | | | 1 pole |
| Tripping characteristic | | | S |
| Application | | | Switchgear for industrial and commercial applications |
| Rated current | $I_n$ | A | 2 |
| Rated switching capacity acc. to IEC/EN 60947-2 | | kA | 10 |
| 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 | 230/400 |
| | | V DC | 48 (per pole) |
| Rated switching capacity acc. to IEC/EN 60947-2 | | kA | 10 |
| 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 | | $mm^2$ | |
| | | $mm^2$ | 1 x 25 |
| | | $mm^2$ | 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 | 2 |
| Heat dissipation per pole, current-dependent | $P_{vid}$ | W | 0 |
| Equipment heat dissipation, current-dependent | $P_{vid}$ | W | 1 |
| 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 |

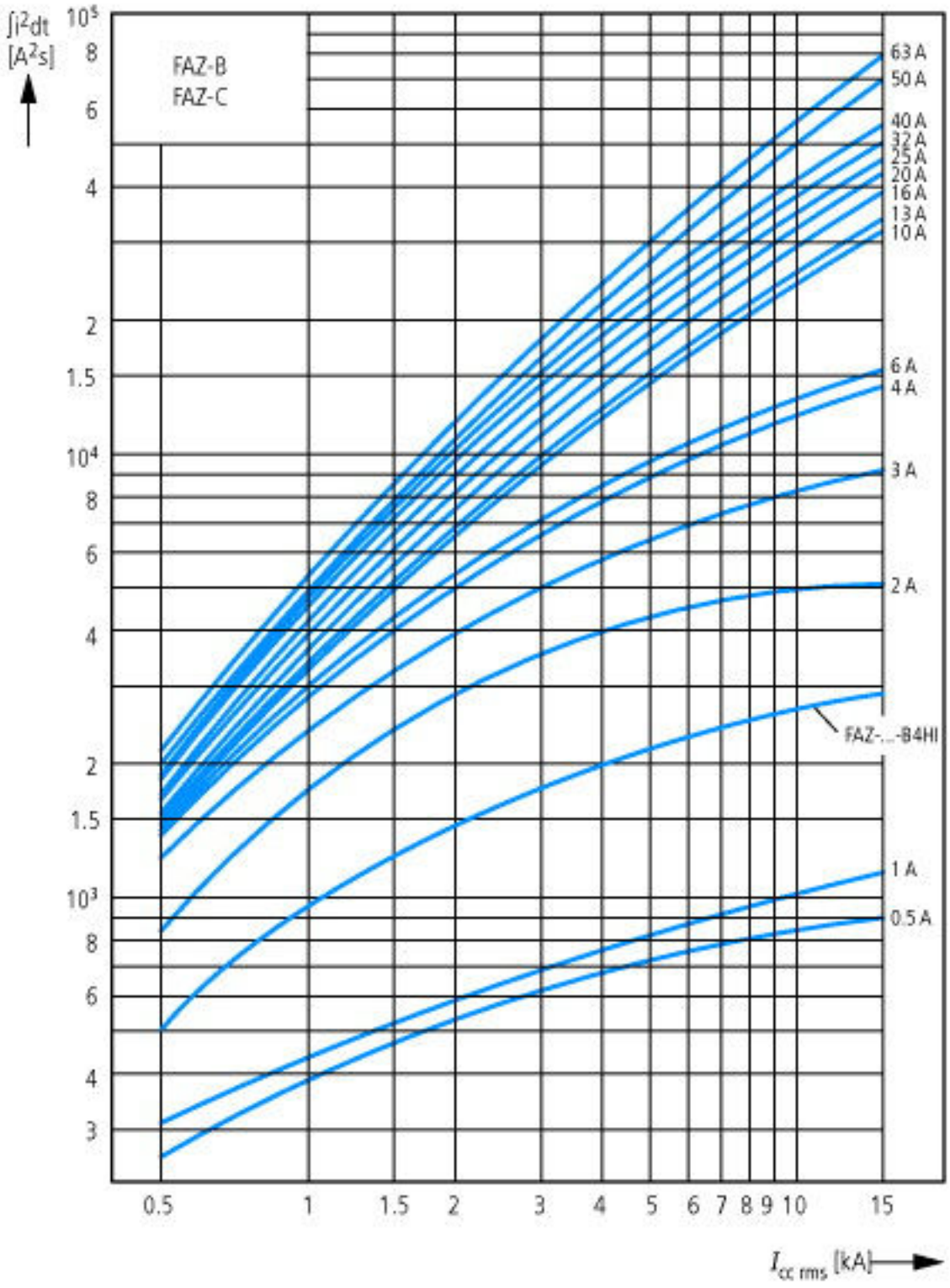
## Technical data ETIM 6.0

| | | | |
|---|---|---|---|
| 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 | | | - |
| Number of poles (total) | | | 1 |
| Number of protected poles | | | 1 |
| Nominal rated current | | A | 2 |
| Nominal rated voltage | | V | 230 |
| 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 | 10 |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V | | kA | 10 |
| 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 | | | 1 |
| Built-in depth | | mm | 70.5 |
| Additional equipment possible | | | Yes |
| Degree of protection (IP) | | | IP20 |

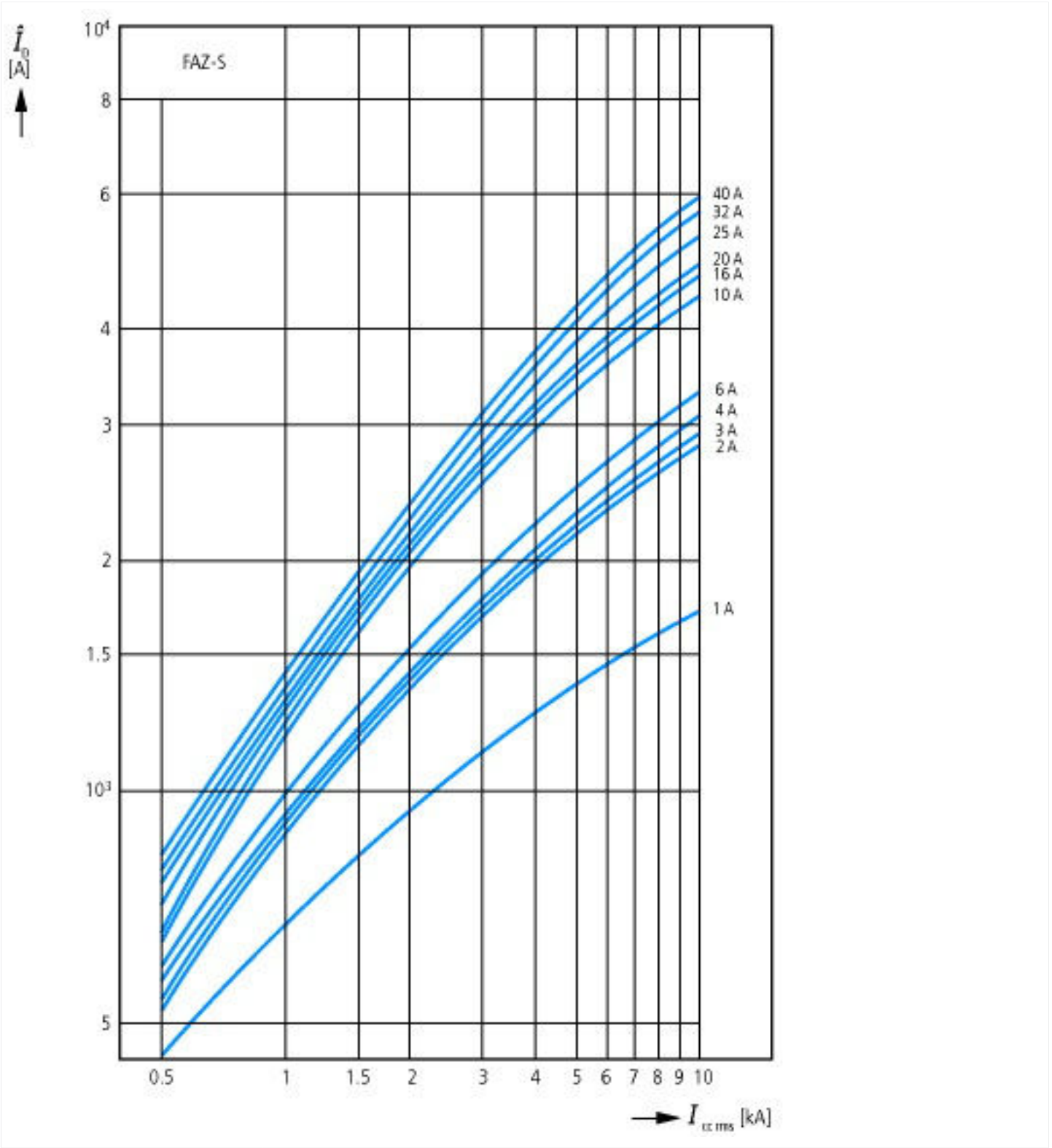
## Approvals

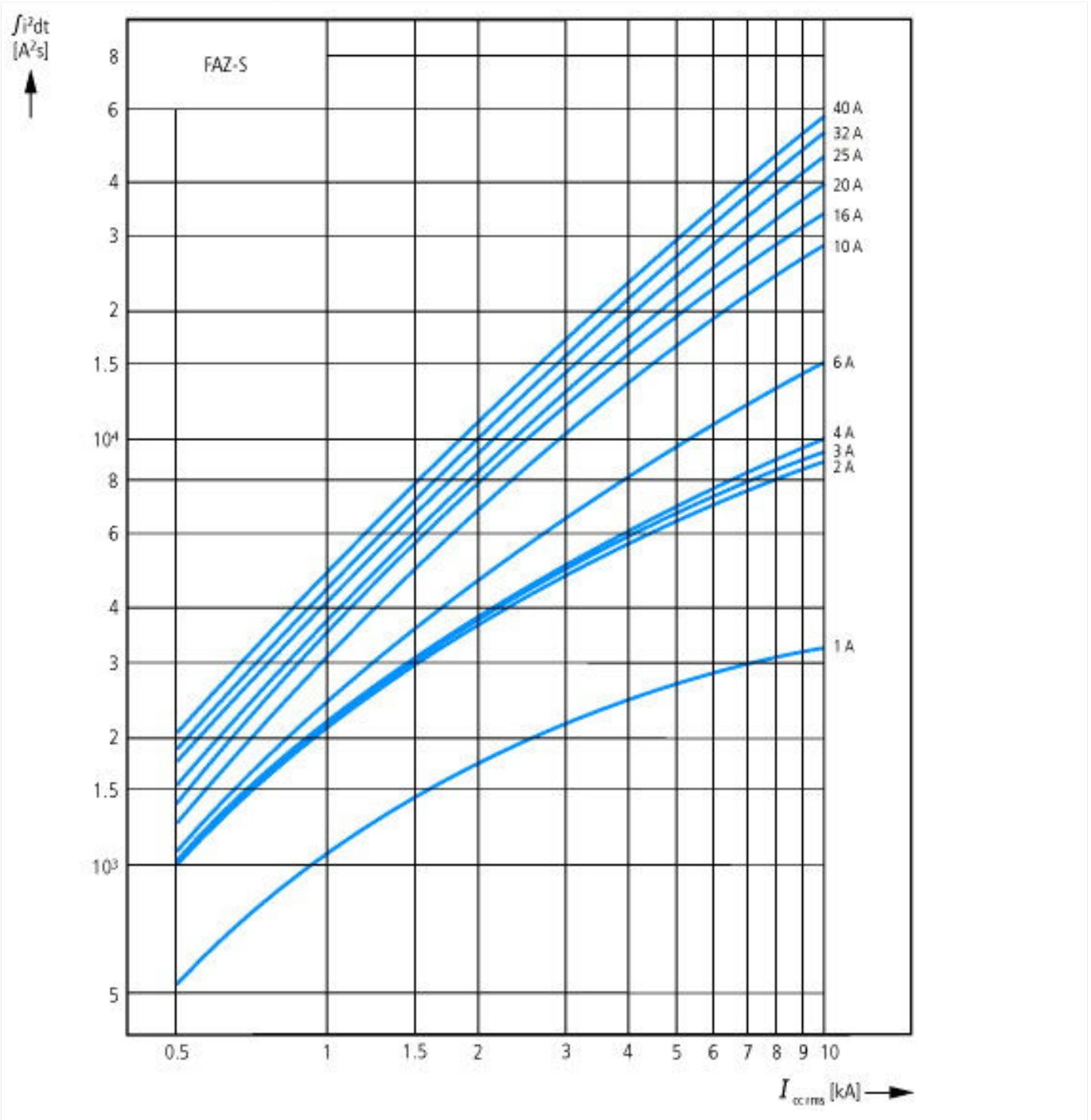
| | | | |
|---|---|---|---|
| Product Standards | | | IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking |
| UL File No. | | | E177451 |
| UL Category Control No. | | | QVNU2, QVNU8 |
| CSA File No. | | | 204453 |
| CSA Class No. | | | 3215-30 |
| North America Certification | | | UL recognized, CSA certified |
| Conditions of Acceptability | | | Supplementary Protector only |
| Suitable for | | | Branch Circuits; not as BCPD |
| Current Limiting Circuit-Breaker | | | No |
| Max. Voltage Rating | | | 277 VAC; 48 VDC |
| Degree of Protection | | | IEC: IP20; UL/CSA Type: - |

## Characteristics

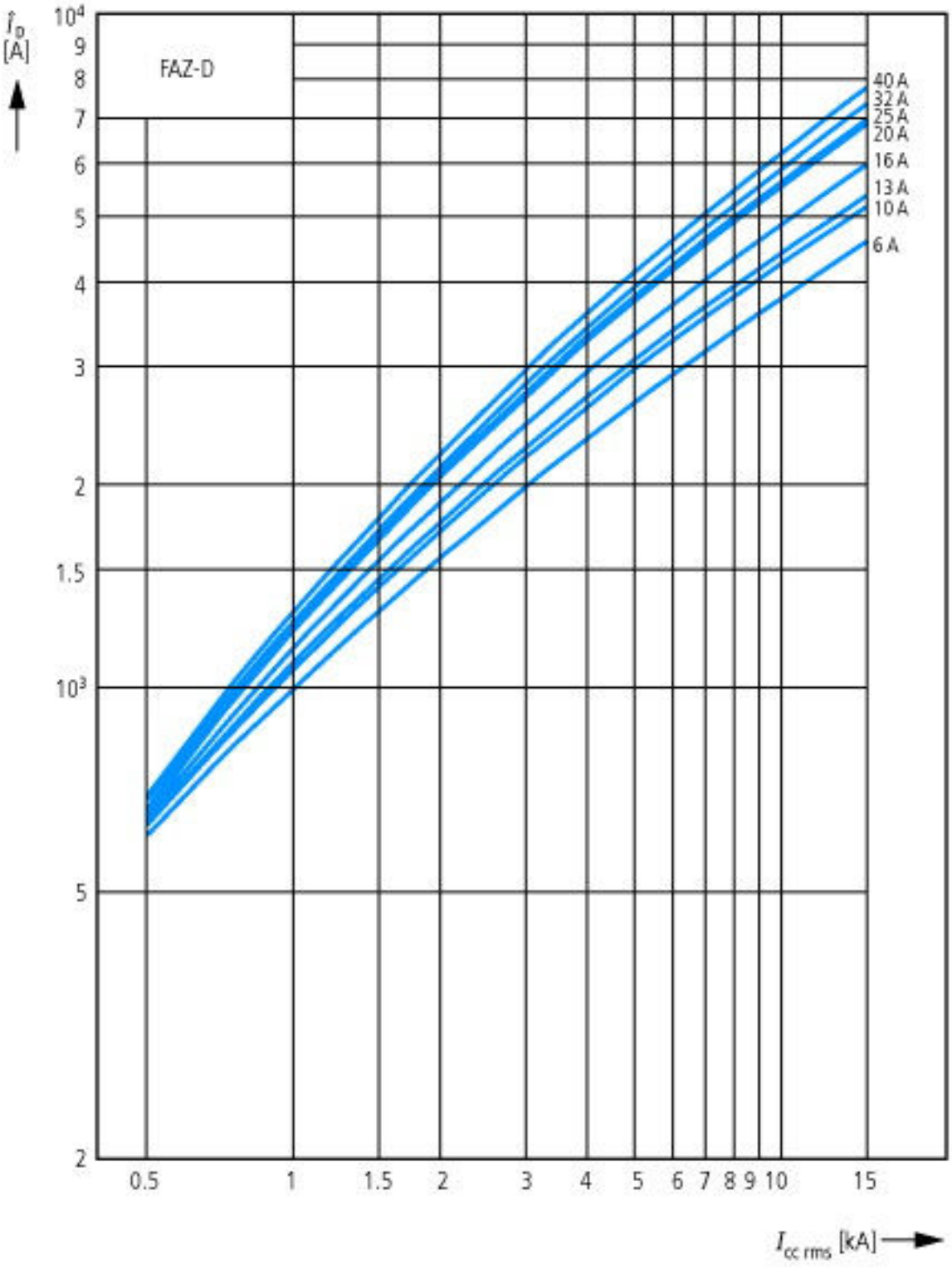


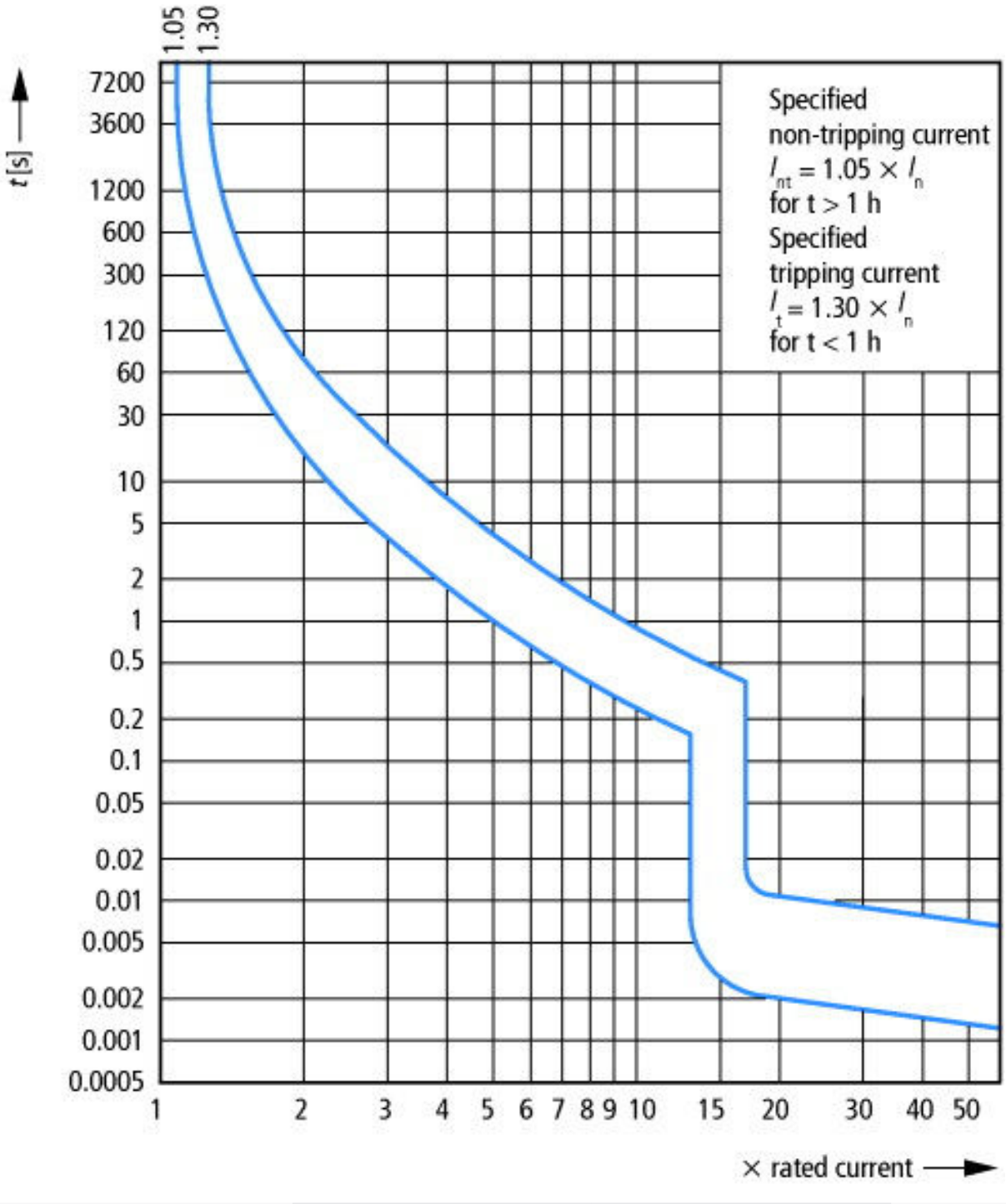

Let-through energy $I^2t$
According to IEC/EN 60898


$t_0$ [A]
FAZ-S
$10^4$
8
6
4
3
2
1.5
$10^3$
5
40 A
32 A
25 A
20 A
16 A
10 A
6 A
4 A
3 A
2 A
1 A
0.5
1
1.5
2
3
4
5
6
7
8
9
10
$I_{cc\ rms}$ [kA]



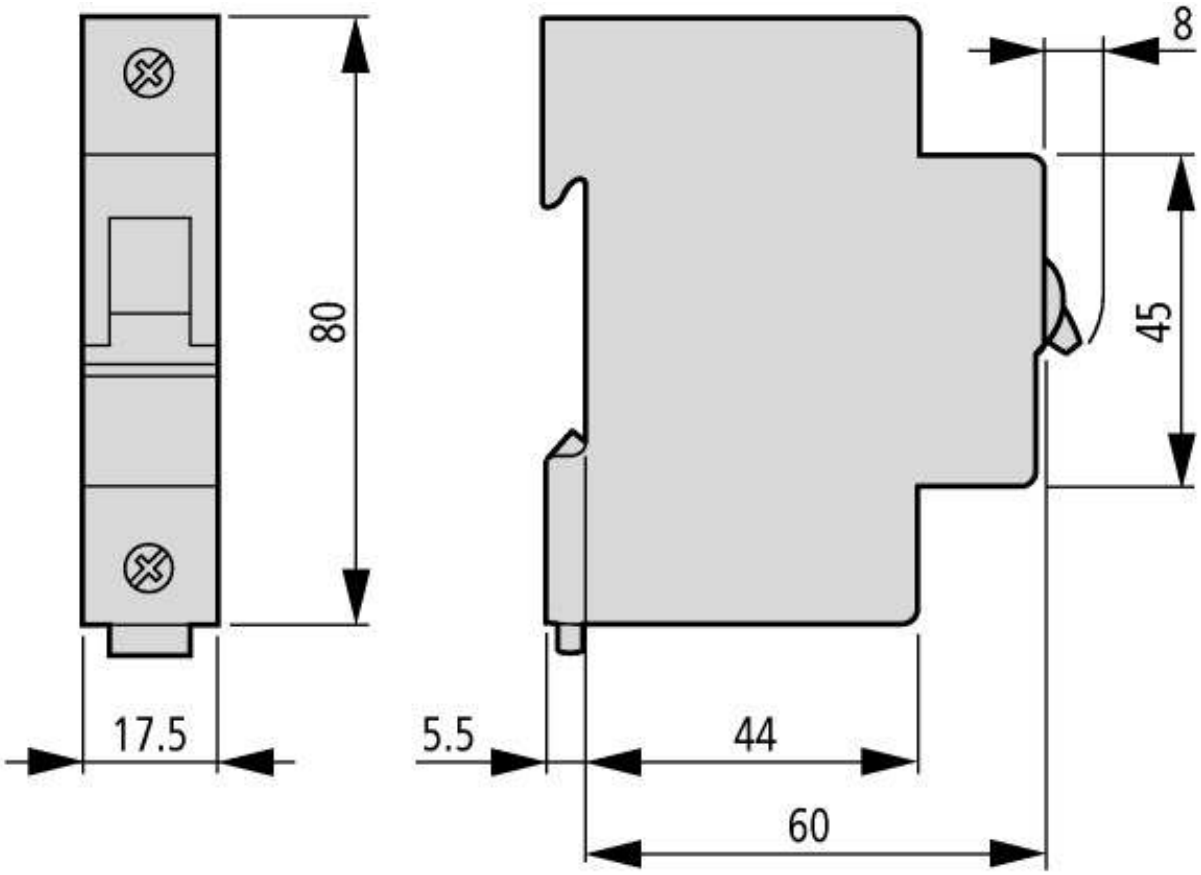

Let-through current $\hat{i}_D$
According to IEC/EN 60898


$\hat{I}_0$ [A]
FAZ-D
40 A
32 A
25 A
20 A
16 A
13 A
10 A
6 A
$10^4$
9
8
7
6
5
4
3
2
1.5
$10^3$
5
2
0.5
1
1.5
2
3
4
5
6
7
8
9
10
15
$I_{cc\ rms}$ [kA]




Tripping characteristic at 30 °C:
S according to IEC/EN 60947

## Dimensions




## Additional product information (links)

| **AWA1220-1755 Circiut-breaker** | |
|---|---|
| AWA1220-1755 Circiut-breaker | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/17550701.pdf |


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