



## Over current switch, 20A, 1p, S-Char, AC

**Part no.** FAZ-S20/1  
**Article no.** 278613  
**Catalog No.** FAZ-S20/1

Similar to illustration

## Delivery programme

|   |       |    |  |
|---|-------|----|--|
| Basic function                                  |       |    | Miniature circuit breakers                                     |
| Number of poles                                 |       |    | 1 pole   |
| Tripping characteristic                         |       |    | S  |
| Application                                     |       |    | Switchgear for industrial and advanced commercial applications |
| Rated current                                   | $I_n$ | A  | 20   |
| 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 <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 | 20  |
| Heat dissipation per pole, current-dependent             | $P_{vid}$ | W | 0   |
| Equipment heat dissipation, current-dependent            | $P_{vid}$ | W | 2.4 |
| Static heat dissipation, non-current-dependent           | $P_{vs}$  | W | 0   |

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|                                    |                   |    |   |
|------------------------------------|-------------------|----|---|
| Heat dissipation capacity          | P <sub>diss</sub> | 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 |

## 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) (ec1@ss8.1-27-14-19-01 [AAB905011]) |  |    |         |
| Release characteristic   |  |    | -       |
| Number of poles (total)  |  |    | 1       |
| Number of protected poles  |  |    | 1       |
| Nominal rated current  |  | A  | 20      |
| Nominal rated voltage  |  | V  | 230     |
| Rated short-circuit breaking capacity I <sub>cn</sub> EN 60898 at 230 V  |  | kA | 0       |
| Rated short-circuit breaking capacity I <sub>cn</sub> EN 60898 at 400 V  |  | kA | 0       |
| Rated short-circuit breaking capacity I <sub>cu</sub> IEC 60947-2 at 230 V   |  | kA | 10      |
| Rated short-circuit breaking capacity I <sub>cu</sub> 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: -  |

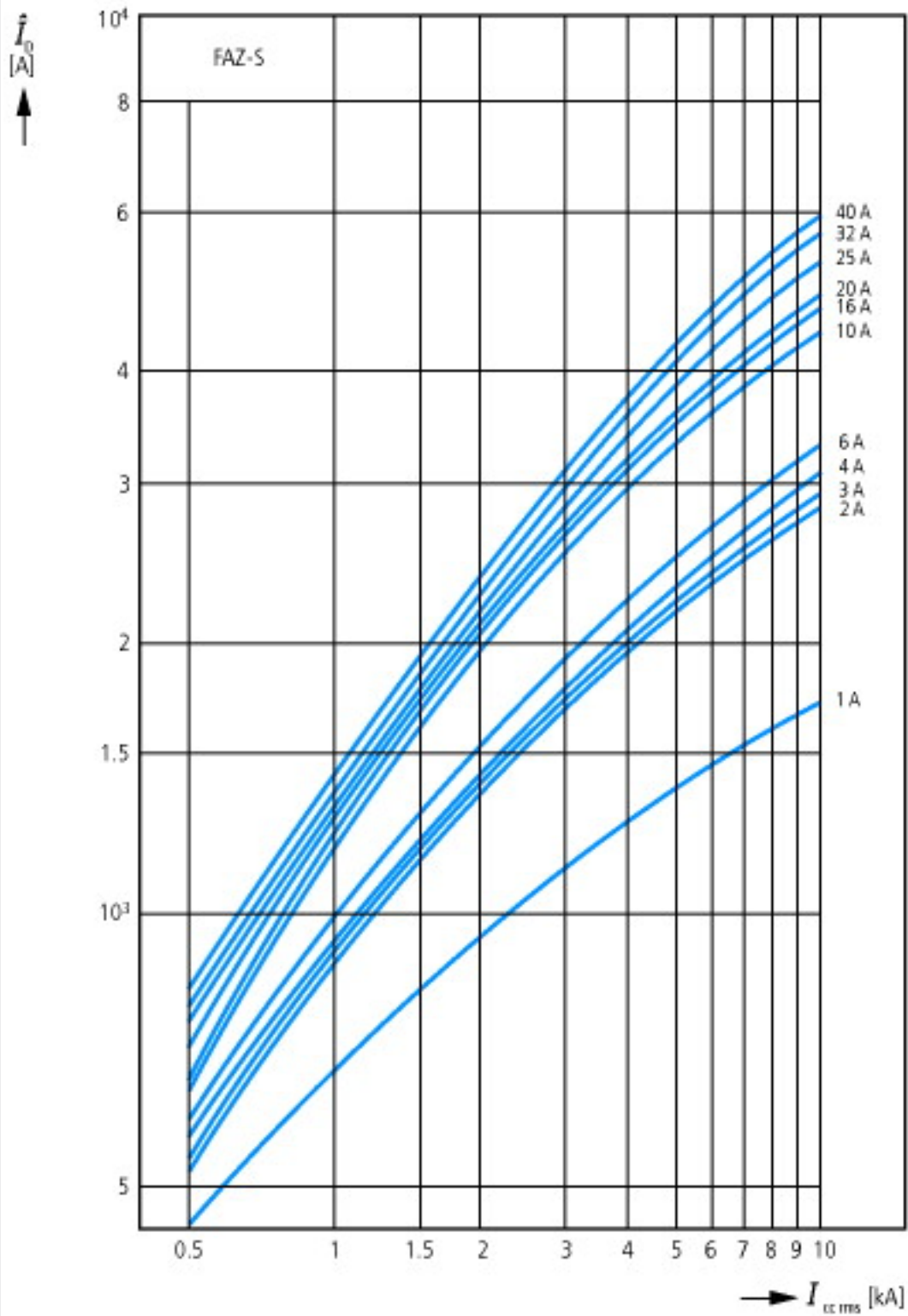
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# Characteristics

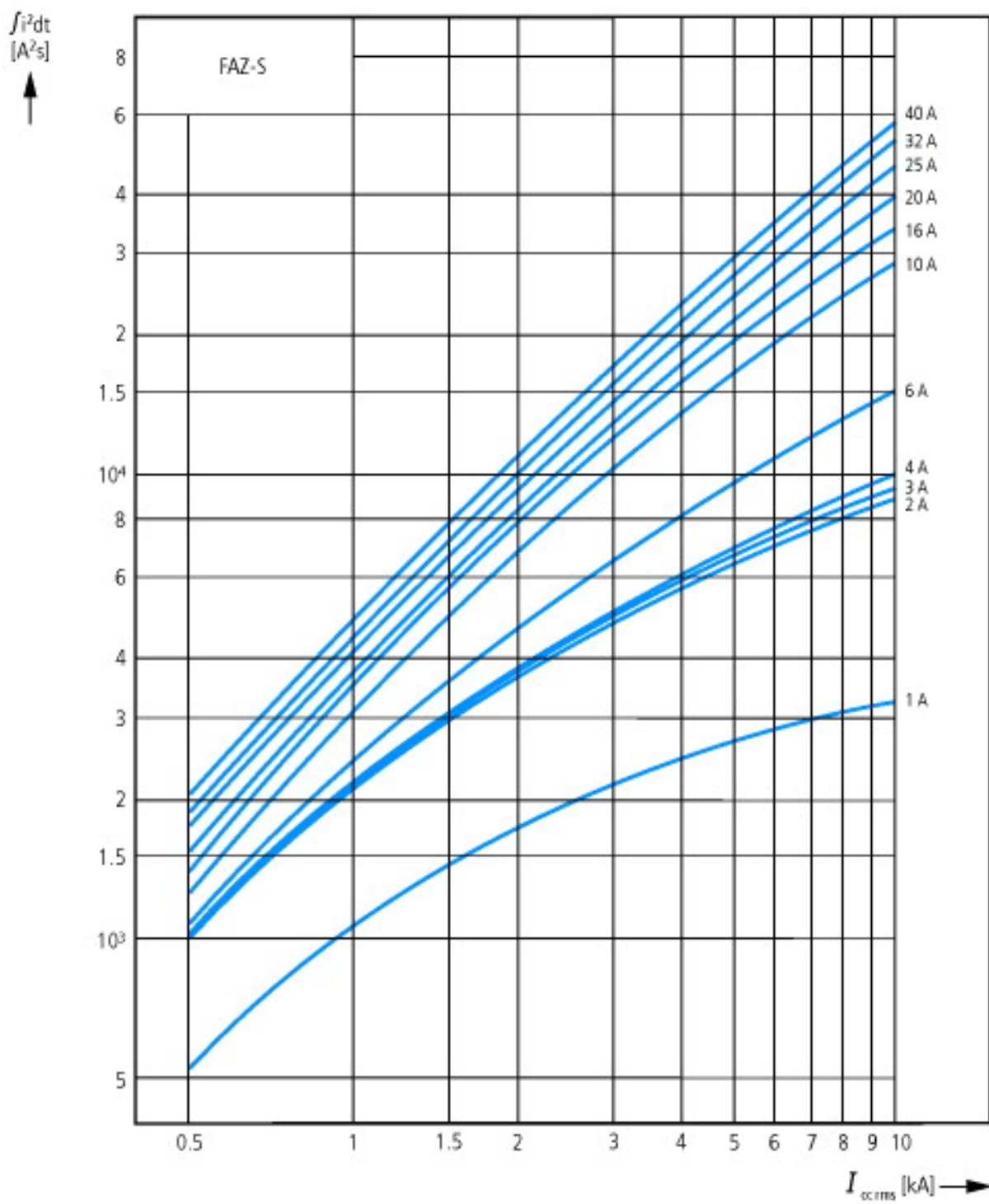


Let-through energy  $i^2t$   
According to IEC/EN 60898

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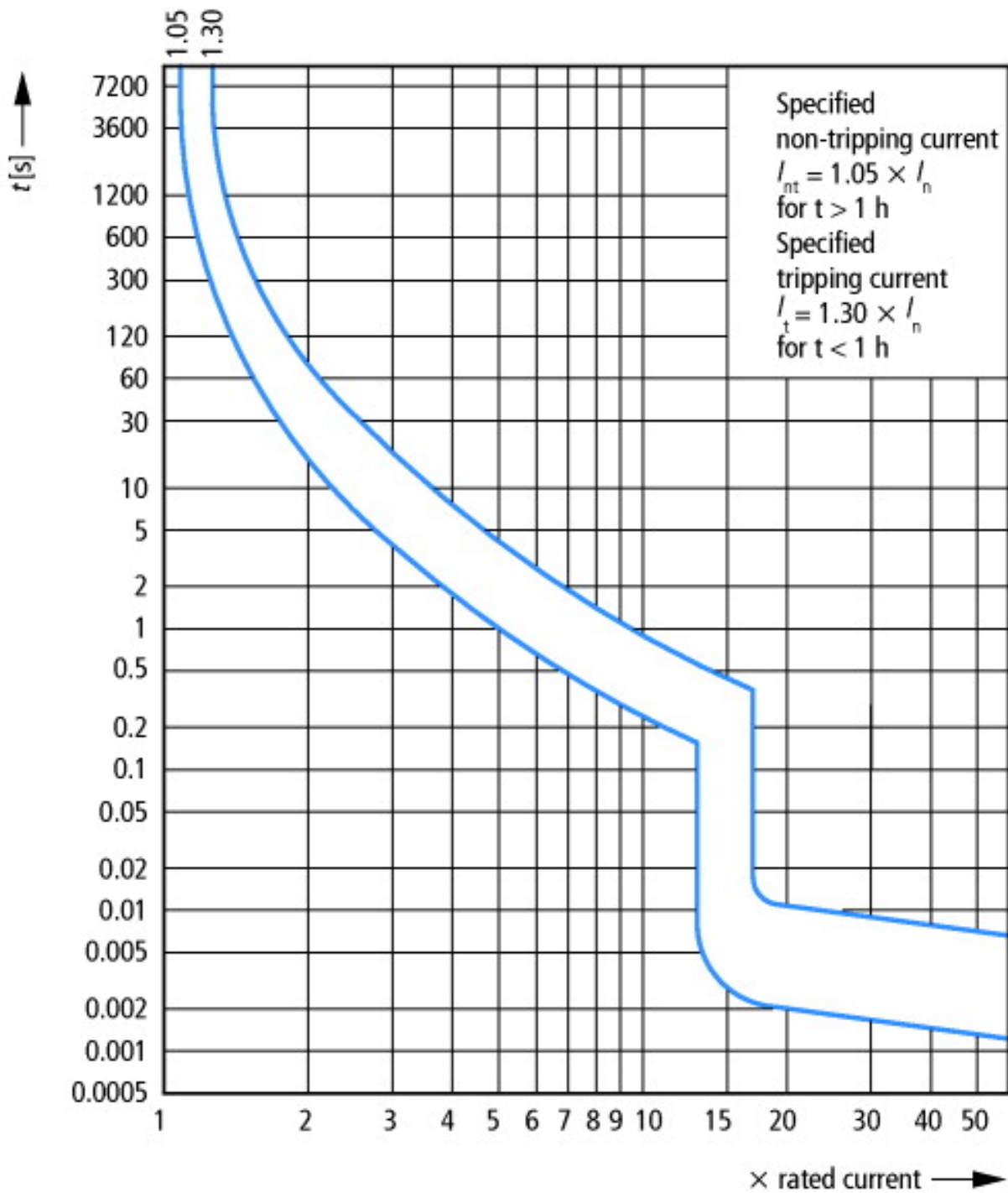


Let-through current  $\hat{i}_D$   
According to IEC/EN 60898

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

## Dimensions



## Additional product information (links)

AWA1220-1755 Circuit-breaker

AWA1220-1755 Circuit-breaker

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