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#### **Delivery program** Basic function Miniature circuit breakers Number of poles 3 pole+N D Tripping characteristic Application Switchgear for industrial and advanced commercial applications Rated current I<sub>n</sub> А 50 Rated switching capacity acc. to IEC/EN 60947-2 kA 25 Product range AZ

### Technical data Electrical

| Liecultai                                       |                |                 |   |
|---|----------------|-----------------|---|
| Standards                                       |                |                 | IEC/EN 60947-2                          |
| Rated operational voltage                       | Ue             | V               |   |
|   | U <sub>e</sub> | V AC            | 230/400                                 |
|   |                | V DC            | 60 (per pole)                           |
| Rated switching capacity acc. to IEC/EN 60947-2 |                | kA              | 25                                      |
| Operational switching capacity                  |                | kA              | 20                                      |
| Characteristic                                  |                |                 | Similar: D, C                           |
| Max. back-up fuse                               |                | A gL/gG         | 200                                     |
| Selectivity Class                               |                |                 | Compliant with Class 3                  |
| Lifespan  | Operations     |                 | > 10000                                 |
| Direction of incoming supply                    |                |                 | as required                             |
| Mechanical                                      |                |                 |   |
| Standard front dimension                        |                | mm              | 45                                      |
| Enclosure height                                |                | mm              | 90                                      |
| Terminal protection                             |                |                 | Finger and back-of-hand proof to BGV A2 |
| Mounting width per pole                         |                | mm              | 27                                      |
| Mounting  |                |                 | IEC/EN 60715 top-hat rail               |
| Degree of Protection                            |                |                 | IP20, IP40 (when fitted)                |
| Terminals top and bottom                        |                |                 | Lift terminals                          |
| Terminal capacities                             |                | mm <sup>2</sup> |   |
|   |                | mm <sup>2</sup> | 2.5 50                                  |

## Design verification as per IEC/EN 61439

| Technical data for design verification                   |                   |    |   |
|--|-------------------|----|---|
| Rated operational current for specified heat dissipation | In                | А  | 50  |
| Heat dissipation per pole, current-dependent             | P <sub>vid</sub>  | W  | 0   |
| Equipment heat dissipation, current-dependent            | P <sub>vid</sub>  | W  | 5.1   |
| Static heat dissipation, non-current-dependent           | P <sub>vs</sub>   | W  | 0   |
| Heat dissipation capacity                                | P <sub>diss</sub> | W  | 0   |
| Operating ambient temperature min.                       |                   | °C | -25   |
| Operating ambient temperature max.                       |                   | °C | 55  |
|  |                   |    | 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<br>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.                         |

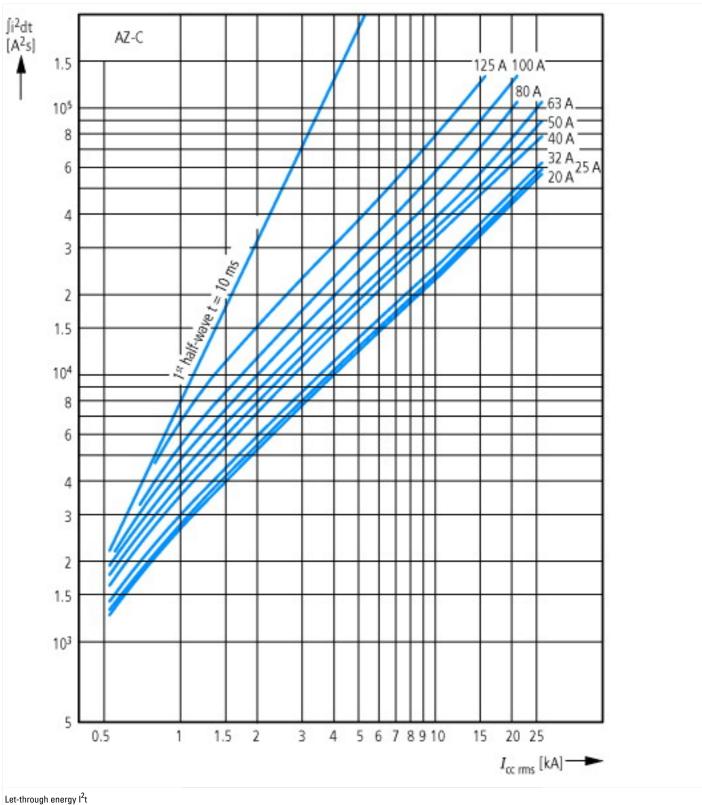
## **Technical data ETIM 6.0**

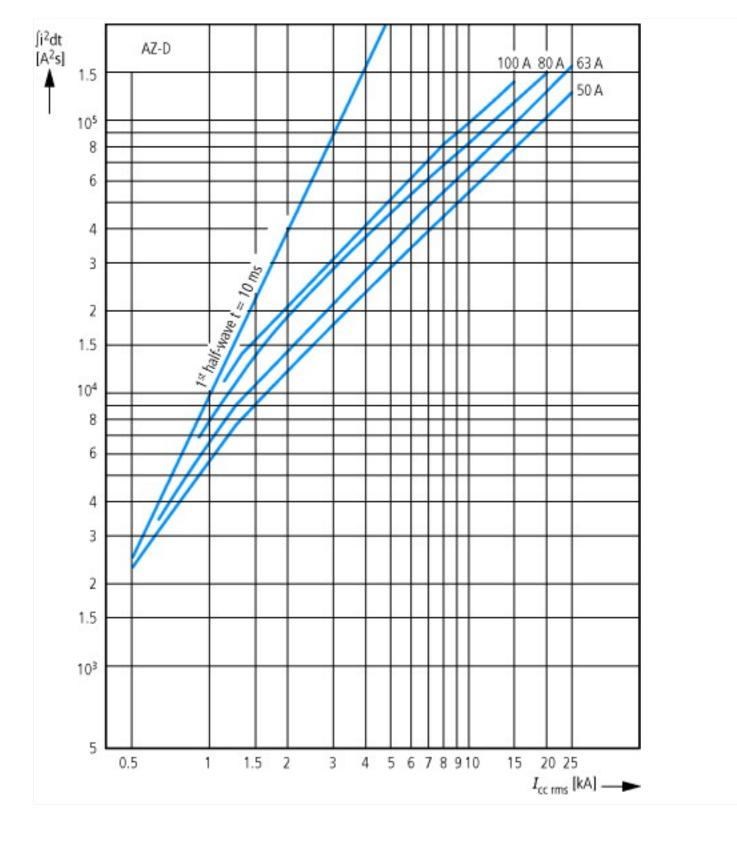
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

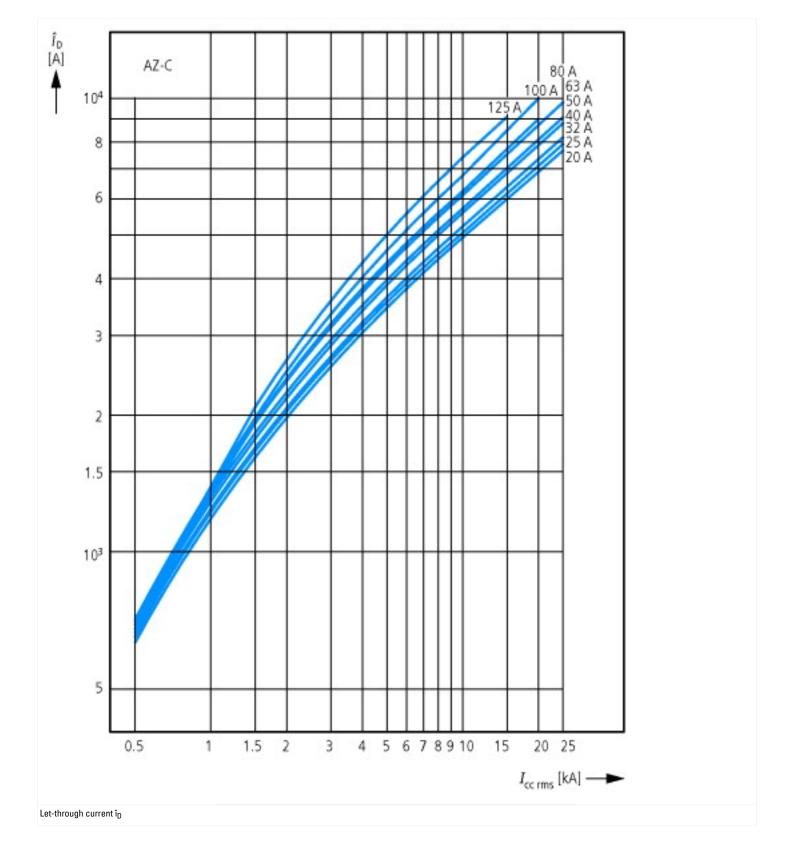
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

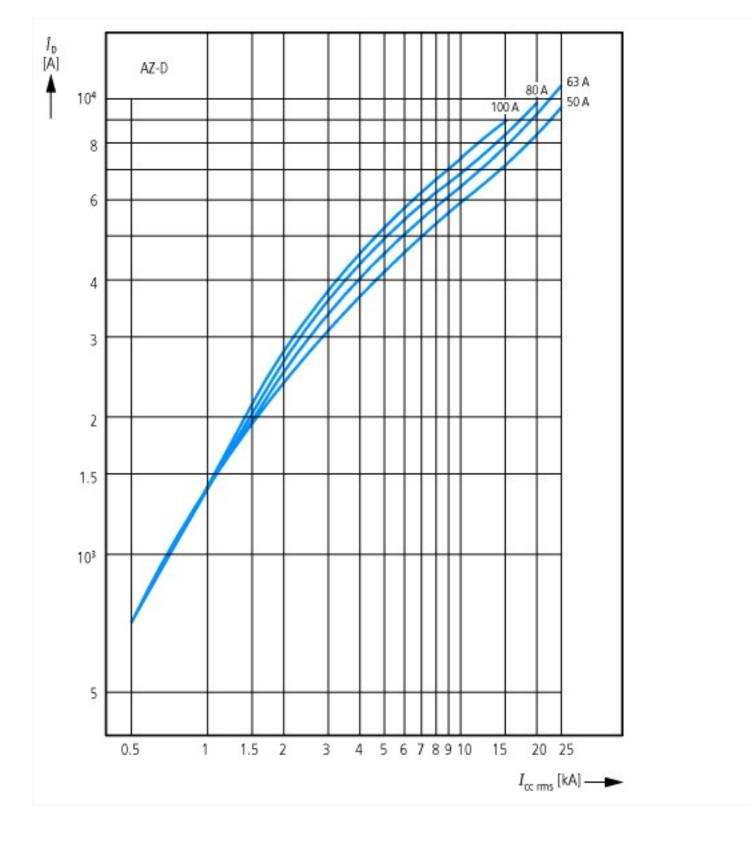
| Release characteristic   |   |    | D       |
|--|---|----|---------|
| Number of poles (total)  |   |    | 4       |
| Number of protected poles                                      |   |    | 4       |
| Nominal rated current  | Д | 4  | 50      |
| Nominal rated voltage  | v | /  | 400     |
| Rated short-circuit breaking capacity Icn EN 60898 at 230 V    | k | κA | 25      |
| Rated short-circuit breaking capacity Icn EN 60898 at 400 V    | k | κA | 25      |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V | k | κA | 0       |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V | k | κA | 0       |
| Voltage type   |   |    | AC      |
| Current limiting class   |   |    | 3       |
| Frequency  | H | Hz | 50 - 60 |
| Concurrently switching N-neutral                               |   |    | Yes     |
| Suitable for flush-mounted installation                        |   |    | No      |
| Over voltage category  |   |    | 3       |
| Pollution degree   |   |    | 2       |
| Width in number of modular spacings                            |   |    | 6       |
| Built-in depth   | n | nm | 75      |
| Additional equipment possible                                  |   |    | Yes     |
| Degree of protection (IP)                                      |   |    | IP20    |

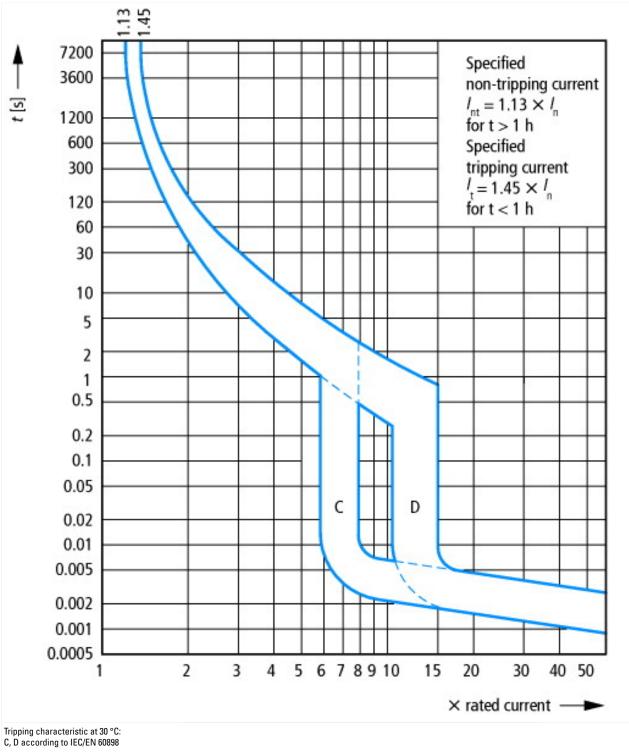






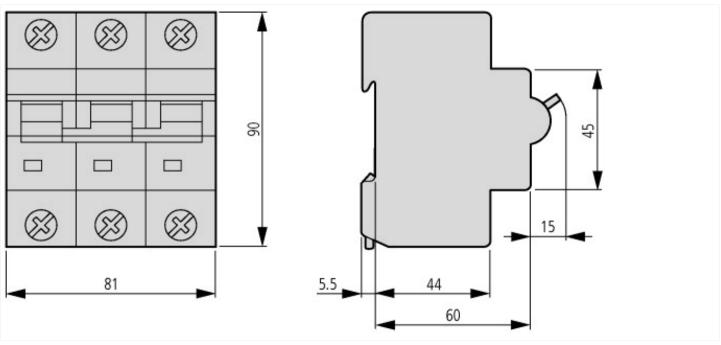






12/15/2016

# Dimensions



## Additional product information (links)

AWA1220-1755 Circiut-breaker

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ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/17550701.pdf