

# GEIS

## Elfa A6 Modular DIN-rail devices

GEIS Electrical Protection

Safer Smarter Greener





In 1879,  
Thomas Edison  
devised The very first  
circuit breaker...



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**I find out what the world needs...  
then I proceed to invent it.**

—— Thomas A. Edison



## About GEIS

GEIS was established in 2019 following the spin-off of several businesses and assets that ABB had acquired from GE on July 1, 2018, include 3 manufacturing centers, Warehousing & Trading business at FTZ, China Technology Center.

- Components: Full range of circuit breakers up to 40.5kV: Medium voltage vacuum circuit breakers, LV circuit breakers: ACB, MCCB, MCB, RCD, RCBO: Control components.
- Equipment: MV switchgear (Air insulation and Gas Insulation Technology), LV switchgear, switchboard.
- Medium voltage cast coil dry type transformer.
- Medium voltage ATS system (Paralleling Switchgear).

After the separation, all the above product lines were rebranded as AEG for the China market and GEIS for global markets.



Note: GEIS brand is also used in China

## Quality is Built-in

### Vertical integrated Manufacturing Center

- Over 25 years of experience in localizing world-class products and manufacturing technologies, building strong expertise and a capable team.
- Consolidated most manufacturing processes under a single 60,000-square-meter facility in Shanghai.
- A strong R&D team dedicated to developing products that meet global standards and diverse applications.
- GEIS Thailand facility focuses on NEMA product lines.



### GEIS deliver complete range of products for the evolving electrification needs:



**SecoVac** VCB



**M-PACT Plus** ACB



**Elfa** Series MCB/RCCB



**EV** Charger



**SecoGear** MV Switchgear



**RMU** Gas Insulated Switchgear



**WaveCast** Transformer



**MLS** LV Switchgear





## Elfa A6 Modular DIN-rail devices

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## SELECTION GUIDE

## ■ Standard AC MCBs

| A6               | M                       |      | 1     | C       | 16                      |        |
|------------------|-------------------------|------|-------|---------|-------------------------|--------|
| Product          | Rated breaking capacity |      | Poles |         | Tripping characteristic |        |
| A6 series<br>MCB | M                       | 6kA  | 1     | 1 pole  | B                       | Type B |
|                  | S                       | 10kA | 2     | 2 poles | C                       | Type C |
|                  |                         |      | 3     | 3 poles | D                       | Type D |
|                  |                         |      | 4     | 4 poles |                         |        |

| 16            |         |
|---------------|---------|
| Rated current |         |
| 01            | 1A      |
| ...           | ... ... |
| 16            | 16A     |
| ...           | ... ... |
| 63            | 63A     |

## ■ Standard DC MCBs

| A6            | S                       |                 | DC           |                | 1     |         | C                       |        | 16            |         |
|---------------|-------------------------|-----------------|--------------|----------------|-------|---------|-------------------------|--------|---------------|---------|
| Product       | Rated breaking capacity |                 | Protect type |                | Poles |         | Tripping characteristic |        | Rated current |         |
| A6 series MCB | S                       | 10kA            | DC           | Direct-current | 1     | 1 pole  | B                       | Type B | 01            | 1A      |
|               | L                       | 10kA (250V, 1P) |              |                | 2     | 2 poles | C                       | Type C | ...           | ... ... |
|               |                         |                 |              |                | 4     | 4 poles |                         |        | 16            | 16A     |
|               |                         |                 |              |                |       |         |                         |        | ...           | ... ... |
|               |                         |                 |              |                |       |         |                         |        | 63            | 63A     |

## ■ Compact MCBs

| A6            | M                       |     | 5     |                             | C                       |        | 16            |        |
|---------------|-------------------------|-----|-------|-----------------------------|-------------------------|--------|---------------|--------|
| Product       | Rated breaking capacity |     | Poles |                             | Tripping characteristic |        | Rated current |        |
| A6 series MCB | M                       | 6kA | 5     | Compact for 1 modular, 1P+N | C                       | Type C | 06            | 6A     |
|               |                         |     |       |                             |                         |        | ...           | ... .. |
|               |                         |     |       |                             |                         |        | 16            | 16A    |
|               |                         |     |       |                             |                         |        | ...           | ... .. |
|               |                         |     |       |                             |                         |        | 40            | 40A    |

## ■ Accessories

| NFAN |                       | H6 |                      |
|------|-----------------------|----|----------------------|
| NFAN | Shunt release. AC220V | H6 | Auxiliary contact    |
| NFAD | Shunt release, DC24V  | S6 | Fault signal contact |

**Note:** Can not apply to compact MCB(A6M5) and disconnect(A6MT).

## SELECTION GUIDE

## ■ Compact RCBO, 1P+N(N-pole can be disconnected)

| A6            | M                       | R   | C            | 16                                         | /             | 030    |                          |
|---------------|-------------------------|-----|--------------|--------------------------------------------|---------------|--------|--------------------------|
| Product       | Rated breaking capacity |     | Protect type |                                            | Rated current |        | Residual protection type |
| A6 series MCB | M                       | 6kA | R            | Compact, 1P+N, Residual current protection | C             | Type C | 06 6A                    |
|               |                         |     |              |                                            |               |        | ... ...                  |
|               |                         |     |              |                                            |               |        | 16 16A                   |
|               |                         |     |              |                                            |               |        | ... ...                  |
|               |                         |     |              |                                            |               |        | 40 40A                   |
|               |                         |     |              |                                            |               |        | 030 30mA                 |
|               |                         |     |              |                                            |               |        | None AC                  |
|               |                         |     |              |                                            |               |        | H A                      |

## ■ RCBO, Assembled

| A6            | M                       | ED  | 2            | C    | 16    | /                                      | 030                     |          |
|---------------|-------------------------|-----|--------------|------|-------|----------------------------------------|-------------------------|----------|
| Product       | Rated breaking capacity |     | Protect type |      | Poles |                                        | Tripping characteristic |          |
| A6 series MCB | M                       | 6kA | S            | 10kA | ED    | Assembled, Residual current protection | 2 2 poles               | C Type C |
|               |                         |     |              |      |       |                                        | 3 3 poles               | D Type D |
|               |                         |     |              |      |       |                                        | 4 4 poles               |          |
|               |                         |     |              |      |       |                                        | 06 6A                   |          |
|               |                         |     |              |      |       |                                        | ... ...                 |          |
|               |                         |     |              |      |       |                                        | 16 16A                  |          |
|               |                         |     |              |      |       |                                        | ... ...                 |          |
|               |                         |     |              |      |       |                                        | 40 40A                  |          |
|               |                         |     |              |      |       |                                        | 030 30mA                |          |
|               |                         |     |              |      |       |                                        | None AC                 |          |
|               |                         |     |              |      |       |                                        | H A                     |          |

## ■ Disconnecter

| A6M           | 1     | T       | 040           |
|---------------|-------|---------|---------------|
| Product       | Poles |         | Type          |
| A6 series MCB | 1     | 1 pole  | T             |
|               | 2     | 2 poles | Disconnecter  |
|               | 3     | 3 poles |               |
|               | 4     | 4 poles |               |
|               |       |         | Rated current |
|               |       |         | 040 40A       |
|               |       |         | 063 63A       |
|               |       |         | 080 80A       |
|               |       |         | 100 100A      |
|               |       |         | 125 125A      |



# Elfa A6 Modular DIN-rail devices

## TECHNICAL FEATURES

### ■ Technical features of MCBs

| Item                                  |                               | Products parameter |                    |                    |                              |                    |                    |
|---------------------------------------|-------------------------------|--------------------|--------------------|--------------------|------------------------------|--------------------|--------------------|
| Product series                        |                               | A6M                | A6S                | A6SDC              | A6LDC                        | A6M5               | A6MT               |
| Standards                             |                               | IEC 60898-1        | IEC 60898-1        | IEC 60947-2        | IEC 60947-2                  | IEC 60898-1        | IEC 60947-3        |
| Electrical features                   |                               |                    |                    |                    |                              |                    |                    |
| Tripping characteristic               |                               | B,C,D              | B,C,D              | B,C                | B,C                          | C                  | -                  |
| Rated current                         |                               | A                  | 1-63               | 1-63               | 1-63                         | 1-63               | 6-40               |
| Poles                                 |                               |                    | 1,2,3,4            | 1,2,3,4            | 1,2                          | 1,2                | 1P+N               |
| Rated voltage                         |                               | AC                 | V                  | 230/400            | 230/400                      | -                  | -                  |
| Rated voltage                         |                               | DC                 | V                  | -                  | -                            | 1P-125V            | 1P-250V            |
|                                       |                               |                    |                    |                    |                              | 2P-250V            | 2P-500V            |
| Rated frequency                       |                               | Hz                 | 50/60              | 50/60              | -                            | -                  | 50/60              |
| Insulation voltage                    |                               | V                  | 500                | 500                | 500                          | 500                | 500                |
| Rated impulse withstand voltage       |                               | Uimp               | V                  | 6000               | 6000                         | 6000               | 6000               |
| Rated short-current breaking capacity |                               | Icn                | kA                 | 6                  | 10                           | 10                 | 10                 |
| Rated ultimate breaking capacity      |                               | Icu                | kA                 | -                  | -                            | 10                 | 10                 |
| Rated short-circuit turn on capacity  |                               | Icm                | A                  | -                  | -                            | -                  | -                  |
| Rated short-time withstand current    |                               | Icw                | A                  | -                  | -                            | -                  | -                  |
| Mechanical features                   |                               |                    |                    |                    |                              |                    |                    |
| Utilization category                  |                               |                    | -                  | -                  | -                            | -                  | AC-22A             |
| Stand temperature                     |                               | °C                 | 30                 | 30                 | 30                           | 30                 | 30                 |
| Energy limiting class                 |                               |                    | 3                  | 3                  | 3                            | 3                  | 3                  |
| for Isolation                         |                               |                    | ■                  | ■                  | ■                            | ■                  | ■                  |
| Status display                        |                               |                    | ■                  | ■                  | ■                            | ■                  | ■                  |
| Mechanical life                       |                               | operations         | 20000              | 20000              | 20000                        | 20000              | 20000              |
| Electrical life                       |                               | operations         | 10000              | 10000              | 10000                        | 10000              | 10000              |
| Installation                          |                               |                    |                    |                    |                              |                    |                    |
| Ingress protection                    | Only breaker                  |                    | IP20               | IP20               | IP20                         | IP20               | IP20               |
|                                       | Installed in distribution box |                    | IP40               | IP40               | IP40                         | IP40               | IP40               |
| Ambient temperature                   |                               | °C                 | -35- +70           | -35- +70           | -35- +70                     | -35- +70           | -35- +70           |
| Storage temperature                   |                               | °C                 | -40 - +85          | -40 - +85          | -40 - +85                    | -40 - +85          | -40 - +85          |
| Altitude                              |                               | m                  | ≤2000              | ≤2000              | ≤2000                        | ≤2000              | ≤2000              |
| Terminal size for cables              | 1-32A                         | mm <sup>2</sup>    | ≤25mm <sup>2</sup> | ≤35mm <sup>2</sup> | ≤35mm <sup>2</sup>           | ≤35mm <sup>2</sup> | ≤16mm <sup>2</sup> |
|                                       | 40-63A                        | mm <sup>2</sup>    | ≤35mm <sup>2</sup> | ≤35mm <sup>2</sup> | ≤35mm <sup>2</sup>           | ≤35mm <sup>2</sup> | ≤16mm <sup>2</sup> |
| Tightening torque                     | 1-32A                         | N·m                | 2.5 N·m            | 3 N·m              | 3 N·m                        | 3 N·m              | 1.5 N·m            |
|                                       | 40-63A                        | N·m                | 3 N·m              | 3 N·m              | 3 N·m                        | 3 N·m              | 1.5 N·m            |
| Terminal screw                        |                               |                    | M5(6-32A)          | M6                 | M5                           | M5                 | M4                 |
|                                       |                               |                    | M6(other)          |                    |                              |                    | M6                 |
| Accessories                           | Auxiliary contact             |                    | ■                  | ■                  | ■                            | ■                  | -                  |
|                                       | Alarm contact                 |                    | ■                  | ■                  | ■                            | ■                  | -                  |
|                                       | Shunt release                 |                    | ■                  | ■                  | ■                            | ■                  | -                  |
| Wiring                                |                               |                    | Top or bottom      | Top or bottom      | Positive in and negative out | Top or bottom      | Top or bottom      |

# Elfa A6 Modular DIN-rail devices

## TECHNICAL FEATURES

### ■ Technical features of MCBs

| Item                                  |                               | Products parameter                      |                    |                    |
|---------------------------------------|-------------------------------|-----------------------------------------|--------------------|--------------------|
| Product series                        |                               | A6MR                                    | A6MED              | A6SED              |
| Standards                             |                               | IEC 61009-1                             | IEC 61009-1        | IEC 61009-1        |
| <b>Electrical features</b>            |                               |                                         |                    |                    |
| Tripping characteristic               |                               | C                                       | C,D                | C,D                |
| Rated current                         | A                             | 6-40                                    | 6-63               | 6-63               |
| Poles                                 |                               | 1P+N                                    | 2,3,4              | 2,3,4              |
| Rated voltage                         | AC                            | V                                       | 230                | 230/400            |
| Rated frequency                       |                               | Hz                                      | 50/60              | 50/60              |
| Insulation voltage                    | Ui                            | V                                       | 500                | 500                |
| Rated impulse withstand voltage       | Uimp                          | V                                       | 4000               | 6000               |
| Rated short-current breaking capacity | Icn                           | kA                                      | 6                  | 10                 |
| Rated short-circuit making capacity   | IΔm                           | kA                                      | 3                  | 6                  |
| Residual current type                 |                               | Type A, AC                              | Type A, AC         | Type A, AC         |
| Residual action current value         | IΔn                           | mA                                      | 30, 100            | 30, 100            |
| <b>Mechanical features</b>            |                               |                                         |                    |                    |
| Stand temperature                     |                               | °C                                      | 30                 | 30                 |
| Energy limiting class                 |                               |                                         | 3                  | 3                  |
| for Isolation                         |                               |                                         | ■                  | ■                  |
| Status display                        |                               |                                         | ■                  | ■                  |
| Mechanical life                       | operations                    | 20000                                   | 20000              | 20000              |
| Electrical life                       | operations                    | 10000                                   | 10000              | 10000              |
| <b>Installation</b>                   |                               |                                         |                    |                    |
| Ingress protection                    | Only breaker                  | IP20                                    | IP20               | IP20               |
|                                       | Installed in distribution box | IP40                                    | IP40               | IP40               |
| Ambient temperature                   |                               | °C                                      | -25 - +55          | -25 - +55          |
| Storage temperature                   |                               | °C                                      | -25 - +85          | -25 - +85          |
| Altitude                              |                               | m                                       | ≤2000              | ≤2000              |
| Terminal size for cables              | 1-32A                         | mm <sup>2</sup>                         | ≤16mm <sup>2</sup> | ≤25mm <sup>2</sup> |
|                                       | 40-63A                        | mm <sup>2</sup>                         | ≤16mm <sup>2</sup> | ≤35mm <sup>2</sup> |
| Tightening torque                     | 1-32A                         | N·m                                     | 1.5 N·m            | 2.5 N·m            |
|                                       | 40-63A                        | N·m                                     | 1.5 N·m            | 3 N·m              |
| Terminal screw                        |                               | M4                                      | M5(6-32A)          | M6                 |
|                                       |                               |                                         | M6(other)          |                    |
| Accessories                           | Auxiliary contact             | -                                       | ■                  | ■                  |
|                                       | Alarm contact                 | -                                       | ■                  | ■                  |
|                                       | Shunt release                 | -                                       | ■                  | ■                  |
| Wiring                                |                               | According to the product identification |                    |                    |



## TECHNICAL FEATURES

### ■ Tripping characteristic

#### - Alternating Current

##### Short-current protection, AC, IEC 60898-1

| Tripping type | Tripping current    | Tripping time |
|---------------|---------------------|---------------|
| B             | 3-10I <sub>n</sub>  | ≤100ms        |
| C             | 5-10I <sub>n</sub>  | ≤100ms        |
| D             | 10-20I <sub>n</sub> | ≤100ms        |

##### Overload protection, AC, IEC 60898-1

| Rated current | Tripping current    | Tripping time                           |
|---------------|---------------------|-----------------------------------------|
| ≤63A          | ≤1.13I <sub>n</sub> | within 1 hour, not tripping(Cold state) |
|               | ≤1.45I <sub>n</sub> | within 1 hour, tripping(Thermal state)  |

#### - Direct Current

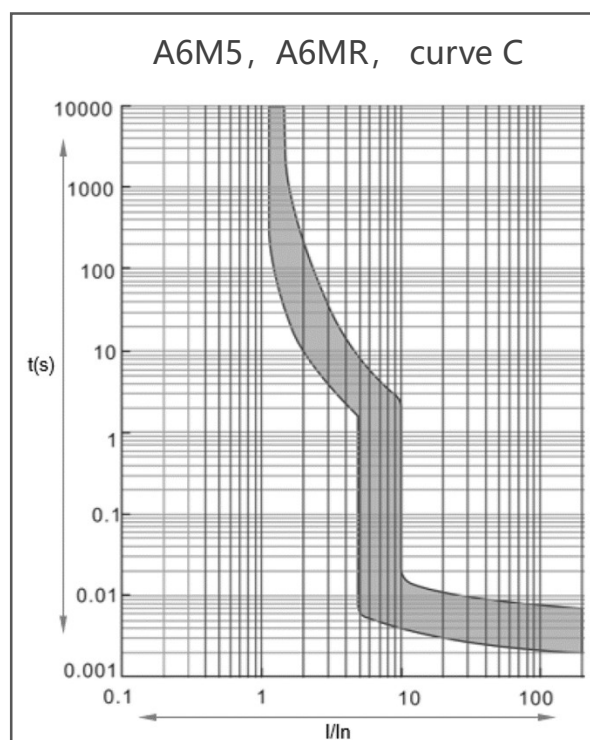
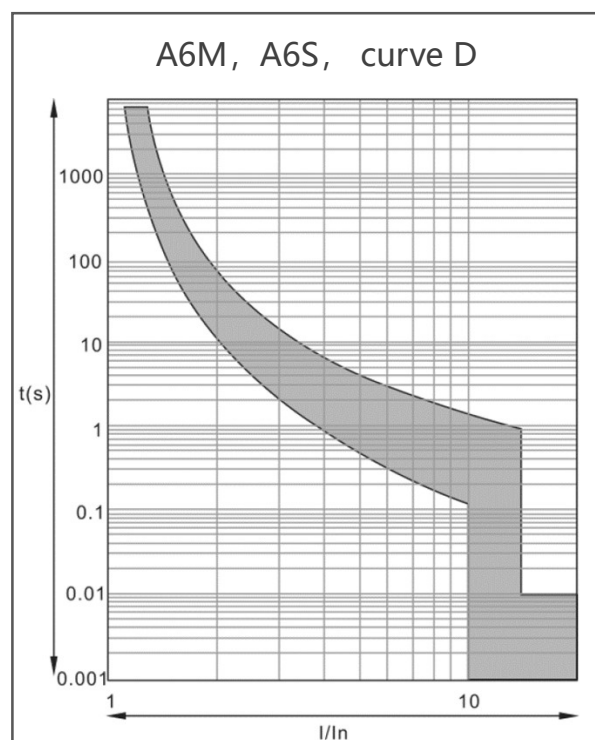
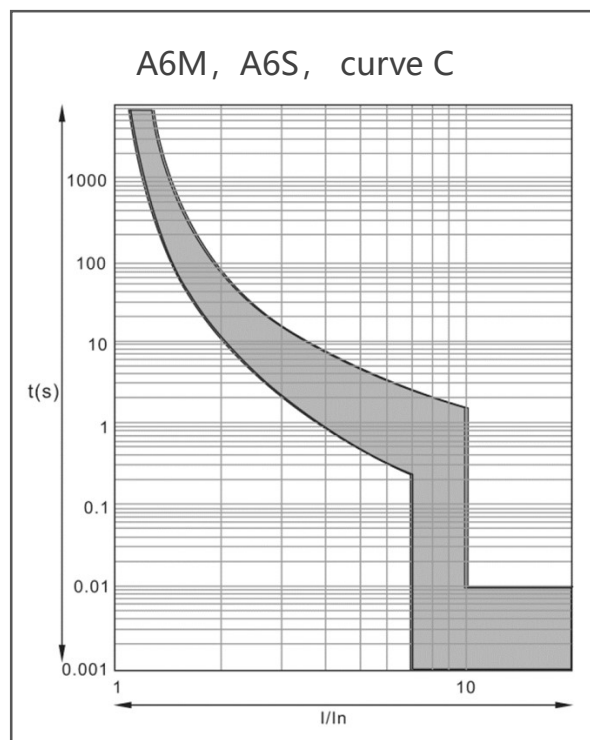
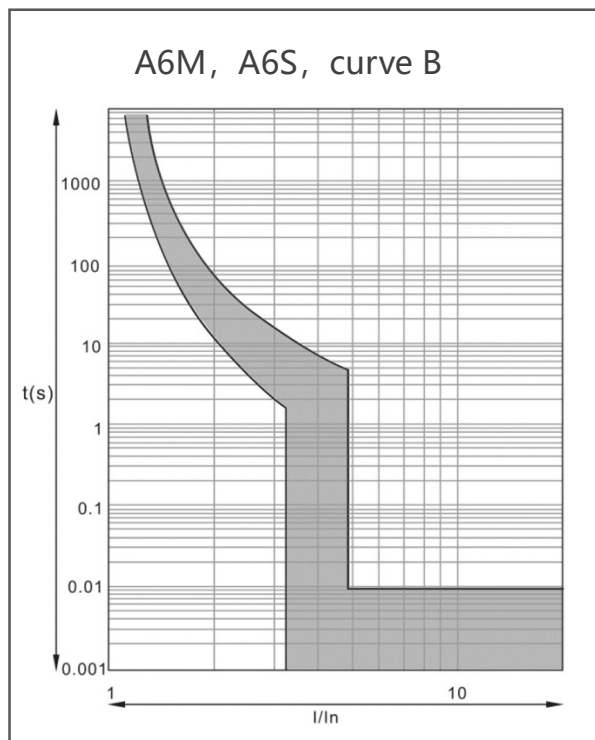
##### Short-current protection, DC, IEC 60947-2

| Tripping type | Tripping current       | Tripping time |
|---------------|------------------------|---------------|
| B             | 5.5I <sub>n</sub> ±20% | ≤100ms        |
| C             | 8.5I <sub>n</sub> ±20% | ≤100ms        |

##### Overload protection, DC, IEC 60947-2

| Rated current | Tripping current    | Tripping time                           |
|---------------|---------------------|-----------------------------------------|
| ≤63A          | ≤1.05I <sub>n</sub> | within 1 hour, not tripping(Cold state) |
|               | ≥1.3I <sub>n</sub>  | within 1 hour, tripping(Thermal state)  |

■ **Tripping curve**



## TECHNICAL FEATURES

### ■ Temperature-current correction factor

A6 series terminal power distribution products design and verify the protection performance of the products based on the ambient temperature of 30°C. When the ambient temperature is different, the following temperature-current coefficient shall be corrected accordingly:

#### - A6M, A6S & A6L MCBs

| Rated current<br>In (A) | Ambient temperature, T(°C) |      |      |      |      |      |      |    |      |      |      |      |
|-------------------------|----------------------------|------|------|------|------|------|------|----|------|------|------|------|
|                         | -40                        | -30  | -20  | -10  | 0    | 10   | 20   | 30 | 40   | 50   | 60   | 70   |
| 1                       | 1.3                        | 1.2  | 1.2  | 1.2  | 1.1  | 1.1  | 1.0  | 1  | 1.0  | 0.9  | 0.9  | 0.8  |
| 2                       | 2.6                        | 2.5  | 2.4  | 2.3  | 2.3  | 2.2  | 2.1  | 2  | 1.9  | 1.8  | 1.7  | 1.6  |
| 3                       | 3.8                        | 3.7  | 3.6  | 3.5  | 3.4  | 3.3  | 3.1  | 3  | 2.9  | 2.7  | 2.6  | 2.4  |
| 4                       | 5.1                        | 4.9  | 4.8  | 4.6  | 4.5  | 4.3  | 4.2  | 4  | 3.8  | 3.7  | 3.5  | 3.3  |
| 6                       | 7.7                        | 7.5  | 7.3  | 7.0  | 6.8  | 6.5  | 6.3  | 6  | 5.7  | 5.4  | 5.1  | 4.7  |
| 10                      | 12.9                       | 12.5 | 12.1 | 11.7 | 11.3 | 10.9 | 10.5 | 10 | 9.5  | 9.0  | 8.5  | 7.9  |
| 16                      | 20.0                       | 19.5 | 19.0 | 18.4 | 17.8 | 17.2 | 16.6 | 16 | 15.3 | 14.7 | 13.9 | 13.2 |
| 20                      | 24.8                       | 24.1 | 23.5 | 22.9 | 22.2 | 21.5 | 20.8 | 20 | 19.2 | 18.4 | 17.6 | 16.7 |
| 25                      | 31.2                       | 30.4 | 29.5 | 28.7 | 27.8 | 26.9 | 26.0 | 25 | 24.0 | 22.9 | 21.8 | 20.7 |
| 32                      | 39.4                       | 38.4 | 37.4 | 36.4 | 35.3 | 34.3 | 33.2 | 32 | 30.8 | 29.6 | 28.3 | 26.9 |
| 40                      | 49.4                       | 48.2 | 46.9 | 45.6 | 44.3 | 42.9 | 41.5 | 40 | 38.5 | 36.9 | 35.2 | 33.5 |
| 50                      | 62.2                       | 60.6 | 59.0 | 57.3 | 55.6 | 53.8 | 51.9 | 50 | 48.0 | 45.9 | 43.7 | 41.4 |
| 63                      | 78.1                       | 76.1 | 74.1 | 72.0 | 69.9 | 67.7 | 65.4 | 63 | 60.5 | 58.0 | 55.3 | 52.5 |

#### - A6M5 compact MCBs

| Rated current<br>In (A) | Ambient temperature, T(°C) |      |      |      |      |      |      |    |      |      |      |      |
|-------------------------|----------------------------|------|------|------|------|------|------|----|------|------|------|------|
|                         | -40                        | -30  | -20  | -10  | 0    | 10   | 20   | 30 | 40   | 50   | 60   | 70   |
| 6                       | 7.6                        | 7.4  | 7.2  | 7.0  | 6.8  | 6.5  | 6.3  | 6  | 5.7  | 5.4  | 5.1  | 4.8  |
| 10                      | 12.5                       | 12.2 | 11.8 | 11.5 | 11.1 | 10.8 | 10.4 | 10 | 9.6  | 9.2  | 8.7  | 8.3  |
| 16                      | 19.5                       | 19.1 | 18.6 | 18.1 | 17.6 | 17.1 | 16.6 | 16 | 15.4 | 14.8 | 14.2 | 13.6 |
| 20                      | 24.6                       | 24.0 | 23.3 | 22.7 | 22.1 | 21.4 | 20.7 | 20 | 19.3 | 18.5 | 17.7 | 16.9 |
| 25                      | 30.3                       | 29.6 | 28.9 | 28.2 | 27.4 | 26.6 | 25.8 | 25 | 24.1 | 23.3 | 22.3 | 21.4 |
| 32                      | 39.1                       | 38.1 | 37.2 | 36.2 | 35.2 | 34.2 | 33.1 | 32 | 30.9 | 29.7 | 28.5 | 27.2 |
| 40                      | 49.4                       | 48.1 | 46.9 | 45.6 | 44.3 | 42.9 | 41.5 | 40 | 38.5 | 36.9 | 35.2 | 33.5 |



Elfa A6 Modular DIN-rail devices

**STANDARD AC MCBs**

■ A6M, Standard AC MCBs, 6kA



IEC 60898-1

6000  
3

Applications



Certification



Accessories



- Auxiliary contact
- Fault signal contact
- Shunt release

Products parameter

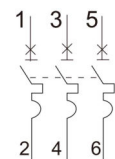
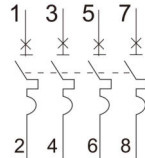
|                            |                 |                                                                                                       |
|----------------------------|-----------------|-------------------------------------------------------------------------------------------------------|
| Rated current(In)          | A               | 1-63                                                                                                  |
| Rated voltage(Ue)          | V               | AC 230/400                                                                                            |
| Tripping characteristic    |                 | B, C, D                                                                                               |
| Current limiting level     |                 | 3                                                                                                     |
| Mechanical/electrical life | times           | 20000/10000                                                                                           |
| For isolation              |                 | Yes                                                                                                   |
| Wiring                     | mm <sup>2</sup> | ≤ 35                                                                                                  |
| Poles                      |                 | 1, 2, 3, 4                                                                                            |
| Overload protection        |                 | ≤ 1.13In, within 1 hour, not tripping(Cold state)<br>≥ 1.45In, within 1 hour, tripping(Thermal state) |
| Short-current protection   |                 | B curve: 3-5In<br>C curve: 5-10In<br>D curve: 10-20In                                                 |

IEC60898, AC

| Poles | Rated voltage | Icn |
|-------|---------------|-----|
| 1-4P  | 230/400V      | 6kA |

## STANDARD AC MCBs

## Ordering data, standard AC MCBs, 6kA

|                                                                                                                                                                                          | Poles | Rated current | B curve |           |            | C curve   |            | D curve   |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------|---------|-----------|------------|-----------|------------|-----------|------------|
|                                                                                                                                                                                          |       |               | A       | Type code | Order code | Type code | Order code | Type code | Order code |
| <br>1P<br>18mm<br>     |       |               | 1       | A6M1B01   | 81001AEN   | A6M1C01   | 81014AEN   | A6M1D01   | 81027AEN   |
|                                                                                                                                                                                          |       |               | 2       | A6M1B02   | 81002AEN   | A6M1C02   | 81015AEN   | A6M1D02   | 81028AEN   |
|                                                                                                                                                                                          |       |               | 3       | A6M1B03   | 81003AEN   | A6M1C03   | 81016AEN   | A6M1D03   | 81029AEN   |
|                                                                                                                                                                                          |       |               | 4       | A6M1B04   | 81004AEN   | A6M1C04   | 81017AEN   | A6M1D04   | 81030AEN   |
|                                                                                                                                                                                          |       |               | 6       | A6M1B06   | 81005AEN   | A6M1C06   | 81018AEN   | A6M1D06   | 81031AEN   |
|                                                                                                                                                                                          |       |               | 10      | A6M1B10   | 81006AEN   | A6M1C10   | 81019AEN   | A6M1D10   | 81032AEN   |
|                                                                                                                                                                                          |       |               | 16      | A6M1B16   | 81007AEN   | A6M1C16   | 81020AEN   | A6M1D16   | 81033AEN   |
|                                                                                                                                                                                          |       |               | 20      | A6M1B20   | 81008AEN   | A6M1C20   | 81021AEN   | A6M1D20   | 81034AEN   |
|                                                                                                                                                                                          |       |               | 25      | A6M1B25   | 81009AEN   | A6M1C25   | 81022AEN   | A6M1D25   | 81035AEN   |
|                                                                                                                                                                                          |       |               | 32      | A6M1B32   | 81010AEN   | A6M1C32   | 81023AEN   | A6M1D32   | 81036AEN   |
|                                                                                                                                                                                          |       |               | 40      | A6M1B40   | 81011AEN   | A6M1C40   | 81024AEN   | A6M1D40   | 81037AEN   |
|                                                                                                                                                                                          |       |               | 50      | A6M1B50   | 81012AEN   | A6M1C50   | 81025AEN   | A6M1D50   | 81038AEN   |
|                                                                                                                                                                                          |       |               | 63      | A6M1B63   | 81013AEN   | A6M1C63   | 81026AEN   | A6M1D63   | 81039AEN   |
| <br>2P<br>36mm<br>   |       |               | 1       | A6M2B01   | 81040AEN   | A6M2C01   | 81053AEN   | A6M2D01   | 81066AEN   |
|                                                                                                                                                                                          |       |               | 2       | A6M2B02   | 81041AEN   | A6M2C02   | 81054AEN   | A6M2D02   | 81067AEN   |
|                                                                                                                                                                                          |       |               | 3       | A6M2B03   | 81042AEN   | A6M2C03   | 81055AEN   | A6M2D03   | 81068AEN   |
|                                                                                                                                                                                          |       |               | 4       | A6M2B04   | 81043AEN   | A6M2C04   | 81056AEN   | A6M2D04   | 81069AEN   |
|                                                                                                                                                                                          |       |               | 6       | A6M2B06   | 81044AEN   | A6M2C06   | 81057AEN   | A6M2D06   | 81070AEN   |
|                                                                                                                                                                                          |       |               | 10      | A6M2B10   | 81045AEN   | A6M2C10   | 81058AEN   | A6M2D10   | 81071AEN   |
|                                                                                                                                                                                          |       |               | 16      | A6M2B16   | 81046AEN   | A6M2C16   | 81059AEN   | A6M2D16   | 81072AEN   |
|                                                                                                                                                                                          |       |               | 20      | A6M2B20   | 81047AEN   | A6M2C20   | 81060AEN   | A6M2D20   | 81073AEN   |
|                                                                                                                                                                                          |       |               | 25      | A6M2B25   | 81048AEN   | A6M2C25   | 81061AEN   | A6M2D25   | 81074AEN   |
|                                                                                                                                                                                          |       |               | 32      | A6M2B32   | 81049AEN   | A6M2C32   | 81062AEN   | A6M2D32   | 81075AEN   |
|                                                                                                                                                                                          |       |               | 40      | A6M2B40   | 81050AEN   | A6M2C40   | 81063AEN   | A6M2D40   | 81076AEN   |
|                                                                                                                                                                                          |       |               | 50      | A6M2B50   | 81051AEN   | A6M2C50   | 81064AEN   | A6M2D50   | 81077AEN   |
|                                                                                                                                                                                          |       |               | 63      | A6M2B63   | 81052AEN   | A6M2C63   | 81065AEN   | A6M2D63   | 81078AEN   |
| <br>3P<br>54mm<br> |       |               | 1       | A6M3B01   | 81079AEN   | A6M3C01   | 81092AEN   | A6M3D01   | 81105AEN   |
|                                                                                                                                                                                          |       |               | 2       | A6M3B02   | 81080AEN   | A6M3C02   | 81093AEN   | A6M3D02   | 81106AEN   |
|                                                                                                                                                                                          |       |               | 3       | A6M3B03   | 81081AEN   | A6M3C03   | 81094AEN   | A6M3D03   | 81107AEN   |
|                                                                                                                                                                                          |       |               | 4       | A6M3B04   | 81082AEN   | A6M3C04   | 81095AEN   | A6M3D04   | 81108AEN   |
|                                                                                                                                                                                          |       |               | 6       | A6M3B06   | 81083AEN   | A6M3C06   | 81096AEN   | A6M3D06   | 81109AEN   |
|                                                                                                                                                                                          |       |               | 10      | A6M3B10   | 81084AEN   | A6M3C10   | 81097AEN   | A6M3D10   | 81110AEN   |
|                                                                                                                                                                                          |       |               | 16      | A6M3B16   | 81085AEN   | A6M3C16   | 81098AEN   | A6M3D16   | 81111AEN   |
|                                                                                                                                                                                          |       |               | 20      | A6M3B20   | 81086AEN   | A6M3C20   | 81099AEN   | A6M3D20   | 81112AEN   |
|                                                                                                                                                                                          |       |               | 25      | A6M3B25   | 81087AEN   | A6M3C25   | 81100AEN   | A6M3D25   | 81113AEN   |
|                                                                                                                                                                                          |       |               | 32      | A6M3B32   | 81088AEN   | A6M3C32   | 81101AEN   | A6M3D32   | 81114AEN   |
|                                                                                                                                                                                          |       |               | 40      | A6M3B40   | 81089AEN   | A6M3C40   | 81102AEN   | A6M3D40   | 81115AEN   |
|                                                                                                                                                                                          |       |               | 50      | A6M3B50   | 81090AEN   | A6M3C50   | 81103AEN   | A6M3D50   | 81116AEN   |
|                                                                                                                                                                                          |       |               | 63      | A6M3B63   | 81091AEN   | A6M3C63   | 81104AEN   | A6M3D63   | 81117AEN   |
| <br>4P<br>72mm<br> |       |               | 1       | A6M4B01   | 81118AEN   | A6M4C01   | 81131AEN   | A6M4D01   | 81144AEN   |
|                                                                                                                                                                                          |       |               | 2       | A6M4B02   | 81119AEN   | A6M4C02   | 81132AEN   | A6M4D02   | 81145AEN   |
|                                                                                                                                                                                          |       |               | 3       | A6M4B03   | 81120AEN   | A6M4C03   | 81133AEN   | A6M4D03   | 81146AEN   |
|                                                                                                                                                                                          |       |               | 4       | A6M4B04   | 81121AEN   | A6M4C04   | 81134AEN   | A6M4D04   | 81147AEN   |
|                                                                                                                                                                                          |       |               | 6       | A6M4B06   | 81122AEN   | A6M4C06   | 81135AEN   | A6M4D06   | 81148AEN   |
|                                                                                                                                                                                          |       |               | 10      | A6M4B10   | 81123AEN   | A6M4C10   | 81136AEN   | A6M4D10   | 81149AEN   |
|                                                                                                                                                                                          |       |               | 16      | A6M4B16   | 81124AEN   | A6M4C16   | 81137AEN   | A6M4D16   | 81150AEN   |
|                                                                                                                                                                                          |       |               | 20      | A6M4B20   | 81125AEN   | A6M4C20   | 81138AEN   | A6M4D20   | 81151AEN   |
|                                                                                                                                                                                          |       |               | 25      | A6M4B25   | 81126AEN   | A6M4C25   | 81139AEN   | A6M4D25   | 81152AEN   |
|                                                                                                                                                                                          |       |               | 32      | A6M4B32   | 81127AEN   | A6M4C32   | 81140AEN   | A6M4D32   | 81153AEN   |
|                                                                                                                                                                                          |       |               | 40      | A6M4B40   | 81128AEN   | A6M4C40   | 81141AEN   | A6M4D40   | 81154AEN   |
|                                                                                                                                                                                          |       |               | 50      | A6M4B50   | 81129AEN   | A6M4C50   | 81142AEN   | A6M4D50   | 81155AEN   |
|                                                                                                                                                                                          |       |               | 63      | A6M4B63   | 81130AEN   | A6M4C63   | 81143AEN   | A6M4D63   | 81156AEN   |

■ **A6S, Standard AC MCBs, 10kA**



IEC 60898-1

10000  
3

Applications



Certification



Accessories



- Auxiliary contact
- Fault signal contact
- Shunt release

Products parameter

|                            |                 |                                                                                                       |
|----------------------------|-----------------|-------------------------------------------------------------------------------------------------------|
| Rated current(In)          | A               | 1-63                                                                                                  |
| Rated voltage(Ue)          | V               | AC 230/400                                                                                            |
| Tripping characteristic    |                 | B, C, D                                                                                               |
| Current limiting level     |                 | 3                                                                                                     |
| Mechanical/electrical life | times           | 20000/10000                                                                                           |
| For isolation              |                 | Yes                                                                                                   |
| Wiring                     | mm <sup>2</sup> | ≤ 35                                                                                                  |
| Poles                      |                 | 1, 2, 3, 4                                                                                            |
| Overload protection        |                 | ≤ 1.13In, within 1 hour, not tripping(Cold state)<br>≥ 1.45In, within 1 hour, tripping(Thermal state) |
| Short-current protection   |                 | B curve: 3-5In<br>C curve: 5-10In<br>D curve: 10-20In                                                 |

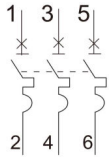
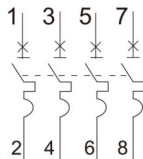
IEC 60898-1, AC

| Poles | Rated voltage | Icn  |
|-------|---------------|------|
| 1-4P  | 230/400V      | 10kA |



## STANDARD AC MCBs

## Ordering data, standard AC MCBs, 10kA

|                                                                                                                                                                                          | Poles | Rated current | B curve |           | C curve    |           | D curve    |           |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------|---------|-----------|------------|-----------|------------|-----------|------------|
|                                                                                                                                                                                          |       |               | A       | Type code | Order code | Type code | Order code | Type code | Order code |
| <br>1P<br>18mm<br>     |       |               | 1       | A6S1B01   | 81157AEN   | A6S1C01   | 81170AEN   | A6S1D01   | 81183AEN   |
|                                                                                                                                                                                          |       |               | 2       | A6S1B02   | 81158AEN   | A6S1C02   | 81171AEN   | A6S1D02   | 81184AEN   |
|                                                                                                                                                                                          |       |               | 3       | A6S1B03   | 81159AEN   | A6S1C03   | 81172AEN   | A6S1D03   | 81185AEN   |
|                                                                                                                                                                                          |       |               | 4       | A6S1B04   | 81160AEN   | A6S1C04   | 81173AEN   | A6S1D04   | 81186AEN   |
|                                                                                                                                                                                          |       |               | 6       | A6S1B06   | 81161AEN   | A6S1C06   | 81174AEN   | A6S1D06   | 81187AEN   |
|                                                                                                                                                                                          |       |               | 10      | A6S1B10   | 81162AEN   | A6S1C10   | 81175AEN   | A6S1D10   | 81188AEN   |
|                                                                                                                                                                                          |       |               | 16      | A6S1B16   | 81163AEN   | A6S1C16   | 81176AEN   | A6S1D16   | 81189AEN   |
|                                                                                                                                                                                          |       |               | 20      | A6S1B20   | 81164AEN   | A6S1C20   | 81177AEN   | A6S1D20   | 81190AEN   |
|                                                                                                                                                                                          |       |               | 25      | A6S1B25   | 81165AEN   | A6S1C25   | 81178AEN   | A6S1D25   | 81191AEN   |
|                                                                                                                                                                                          |       |               | 32      | A6S1B32   | 81166AEN   | A6S1C32   | 81179AEN   | A6S1D32   | 81192AEN   |
|                                                                                                                                                                                          |       |               | 40      | A6S1B40   | 81167AEN   | A6S1C40   | 81180AEN   | A6S1D40   | 81193AEN   |
|                                                                                                                                                                                          |       |               | 50      | A6S1B50   | 81168AEN   | A6S1C50   | 81181AEN   | A6S1D50   | 81194AEN   |
|                                                                                                                                                                                          |       |               | 63      | A6S1B63   | 81169AEN   | A6S1C63   | 81182AEN   | A6S1D63   | 81195AEN   |
| <br>2P<br>36mm<br>  |       |               | 1       | A6S2B01   | 81196AEN   | A6S2C01   | 81209AEN   | A6S2D01   | 81222AEN   |
|                                                                                                                                                                                          |       |               | 2       | A6S2B02   | 81197AEN   | A6S2C02   | 81210AEN   | A6S2D02   | 81223AEN   |
|                                                                                                                                                                                          |       |               | 3       | A6S2B03   | 81198AEN   | A6S2C03   | 81211AEN   | A6S2D03   | 81224AEN   |
|                                                                                                                                                                                          |       |               | 4       | A6S2B04   | 81199AEN   | A6S2C04   | 81212AEN   | A6S2D04   | 81225AEN   |
|                                                                                                                                                                                          |       |               | 6       | A6S2B06   | 81200AEN   | A6S2C06   | 81213AEN   | A6S2D06   | 81226AEN   |
|                                                                                                                                                                                          |       |               | 10      | A6S2B10   | 81201AEN   | A6S2C10   | 81214AEN   | A6S2D10   | 81227AEN   |
|                                                                                                                                                                                          |       |               | 16      | A6S2B16   | 81202AEN   | A6S2C16   | 81215AEN   | A6S2D16   | 81228AEN   |
|                                                                                                                                                                                          |       |               | 20      | A6S2B20   | 81203AEN   | A6S2C20   | 81216AEN   | A6S2D20   | 81229AEN   |
|                                                                                                                                                                                          |       |               | 25      | A6S2B25   | 81204AEN   | A6S2C25   | 81217AEN   | A6S2D25   | 81230AEN   |
|                                                                                                                                                                                          |       |               | 32      | A6S2B32   | 81205AEN   | A6S2C32   | 81218AEN   | A6S2D32   | 81231AEN   |
|                                                                                                                                                                                          |       |               | 40      | A6S2B40   | 81206AEN   | A6S2C40   | 81219AEN   | A6S2D40   | 81232AEN   |
|                                                                                                                                                                                          |       |               | 50      | A6S2B50   | 81207AEN   | A6S2C50   | 81220AEN   | A6S2D50   | 81233AEN   |
|                                                                                                                                                                                          |       |               | 63      | A6S2B63   | 81208AEN   | A6S2C63   | 81221AEN   | A6S2D63   | 81234AEN   |
| <br>3P<br>54mm<br> |       |               | 1       | A6S3B01   | 81235AEN   | A6S3C01   | 81248AEN   | A6S3D01   | 81261AEN   |
|                                                                                                                                                                                          |       |               | 2       | A6S3B02   | 81236AEN   | A6S3C02   | 81249AEN   | A6S3D02   | 81262AEN   |
|                                                                                                                                                                                          |       |               | 3       | A6S3B03   | 81237AEN   | A6S3C03   | 81250AEN   | A6S3D03   | 81263AEN   |
|                                                                                                                                                                                          |       |               | 4       | A6S3B04   | 81238AEN   | A6S3C04   | 81251AEN   | A6S3D04   | 81264AEN   |
|                                                                                                                                                                                          |       |               | 6       | A6S3B06   | 81239AEN   | A6S3C06   | 81252AEN   | A6S3D06   | 81265AEN   |
|                                                                                                                                                                                          |       |               | 10      | A6S3B10   | 81240AEN   | A6S3C10   | 81253AEN   | A6S3D10   | 81266AEN   |
|                                                                                                                                                                                          |       |               | 16      | A6S3B16   | 81241AEN   | A6S3C16   | 81254AEN   | A6S3D16   | 81267AEN   |
|                                                                                                                                                                                          |       |               | 20      | A6S3B20   | 81242AEN   | A6S3C20   | 81255AEN   | A6S3D20   | 81268AEN   |
|                                                                                                                                                                                          |       |               | 25      | A6S3B25   | 81243AEN   | A6S3C25   | 81256AEN   | A6S3D25   | 81269AEN   |
|                                                                                                                                                                                          |       |               | 32      | A6S3B32   | 81244AEN   | A6S3C32   | 81257AEN   | A6S3D32   | 81270AEN   |
|                                                                                                                                                                                          |       |               | 40      | A6S3B40   | 81245AEN   | A6S3C40   | 81258AEN   | A6S3D40   | 81271AEN   |
|                                                                                                                                                                                          |       |               | 50      | A6S3B50   | 81246AEN   | A6S3C50   | 81259AEN   | A6S3D50   | 81272AEN   |
|                                                                                                                                                                                          |       |               | 63      | A6S3B63   | 81247AEN   | A6S3C63   | 81260AEN   | A6S3D63   | 81273AEN   |
| <br>4P<br>72mm<br> |       |               | 1       | A6S4B01   | 81274AEN   | A6S4C01   | 81287AEN   | A6S4D01   | 81300AEN   |
|                                                                                                                                                                                          |       |               | 2       | A6S4B02   | 81275AEN   | A6S4C02   | 81288AEN   | A6S4D02   | 81301AEN   |
|                                                                                                                                                                                          |       |               | 3       | A6S4B03   | 81276AEN   | A6S4C03   | 81289AEN   | A6S4D03   | 81302AEN   |
|                                                                                                                                                                                          |       |               | 4       | A6S4B04   | 81277AEN   | A6S4C04   | 81290AEN   | A6S4D04   | 81303AEN   |
|                                                                                                                                                                                          |       |               | 6       | A6S4B06   | 81278AEN   | A6S4C06   | 81291AEN   | A6S4D06   | 81304AEN   |
|                                                                                                                                                                                          |       |               | 10      | A6S4B10   | 81279AEN   | A6S4C10   | 81292AEN   | A6S4D10   | 81305AEN   |
|                                                                                                                                                                                          |       |               | 16      | A6S4B16   | 81280AEN   | A6S4C16   | 81293AEN   | A6S4D16   | 81306AEN   |
|                                                                                                                                                                                          |       |               | 20      | A6S4B20   | 81281AEN   | A6S4C20   | 81294AEN   | A6S4D20   | 81307AEN   |
|                                                                                                                                                                                          |       |               | 25      | A6S4B25   | 81282AEN   | A6S4C25   | 81295AEN   | A6S4D25   | 81308AEN   |
|                                                                                                                                                                                          |       |               | 32      | A6S4B32   | 81283AEN   | A6S4C32   | 81296AEN   | A6S4D32   | 81309AEN   |
|                                                                                                                                                                                          |       |               | 40      | A6S4B40   | 81284AEN   | A6S4C40   | 81297AEN   | A6S4D40   | 81310AEN   |
|                                                                                                                                                                                          |       |               | 50      | A6S4B50   | 81285AEN   | A6S4C50   | 81298AEN   | A6S4D50   | 81311AEN   |
|                                                                                                                                                                                          |       |               | 63      | A6S4B63   | 81286AEN   | A6S4C63   | 81299AEN   | A6S4D63   | 81312AEN   |

■ **A6M5, Compact AC MCBs, 6kA**



IEC 60898-1

6000  
3

Applications



Certification



**Products parameter**

|                            |                 |                                                                                                             |
|----------------------------|-----------------|-------------------------------------------------------------------------------------------------------------|
| Rated current(In)          | A               | 6-40                                                                                                        |
| Rated voltage(Ue)          | V               | AC 230                                                                                                      |
| Tripping characteristic    |                 | C                                                                                                           |
| Current limiting level     |                 | 3                                                                                                           |
| Mechanical/electrical life | times           | 20000/10000                                                                                                 |
| For isolation              |                 | Yes                                                                                                         |
| Wiring                     | mm <sup>2</sup> | ≤ 16                                                                                                        |
| Poles                      |                 | 1P+N                                                                                                        |
| Overload protection        |                 | ≤ 1.13In, within 1 hour,<br>not tripping(Cold state)<br>≥ 1.45In, within 1 hour,<br>tripping(Thermal state) |
| Short-current protection   |                 | C curve: 5-10In                                                                                             |

IEC 60898-1, AC

| Poles | Rated voltage | Icn |
|-------|---------------|-----|
| 1P+N  | 230V          | 6kA |

Elfa A6 Modular DIN-rail devices

**COMPACT AC MCBs**

**Ordering data, compact AC MCBs, 6kA**

|                                                                                   | Poles                                                                             | Rated<br>current<br>A | C curve   |            |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------|-----------|------------|
|                                                                                   |                                                                                   |                       | Type code | Order code |
|  | 1P+N                                                                              | 6                     | A6M5C06   | 81501AEN   |
|                                                                                   | 18mm                                                                              | 10                    | A6M5C10   | 81502AEN   |
|                                                                                   |                                                                                   | 16                    | A6M5C16   | 81503AEN   |
|                                                                                   |                                                                                   | 20                    | A6M5C20   | 81504AEN   |
|                                                                                   |  | 25                    | A6M5C25   | 81505AEN   |
|                                                                                   |                                                                                   | 32                    | A6M5C32   | 81506AEN   |
|                                                                                   |                                                                                   | 40                    | A6M5C40   | 81507AEN   |
|                                                                                   |                                                                                   |                       |           |            |

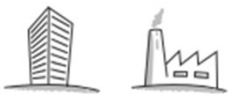
■ **A6S, DC MCBs**



IEC 60947-2

10000

Applications



Certification



Accessories



- Auxiliary contact
- Fault signal contact
- Shunt release

**Products parameter**

|                            |                 |                                                                                                      |
|----------------------------|-----------------|------------------------------------------------------------------------------------------------------|
| Rated current(In)          | A               | 1-63                                                                                                 |
| Rated voltage(Ue)          | V               | DC 125/250                                                                                           |
| Tripping characteristic    |                 | B, C                                                                                                 |
| Mechanical/electrical life | times           | 20000/10000                                                                                          |
| For isolation              |                 | Yes                                                                                                  |
| Wiring                     | mm <sup>2</sup> | ≤ 35                                                                                                 |
| Poles                      |                 | 1, 2                                                                                                 |
| Overload protection        |                 | ≤ 1.05In, within 1 hour, not tripping(Cold state)<br>≥ 1.3In, within 1 hour, tripping(Thermal state) |
| Short-current protection   |                 | B curve: 5.5In±20%<br>C curve: 8.5In±20%                                                             |

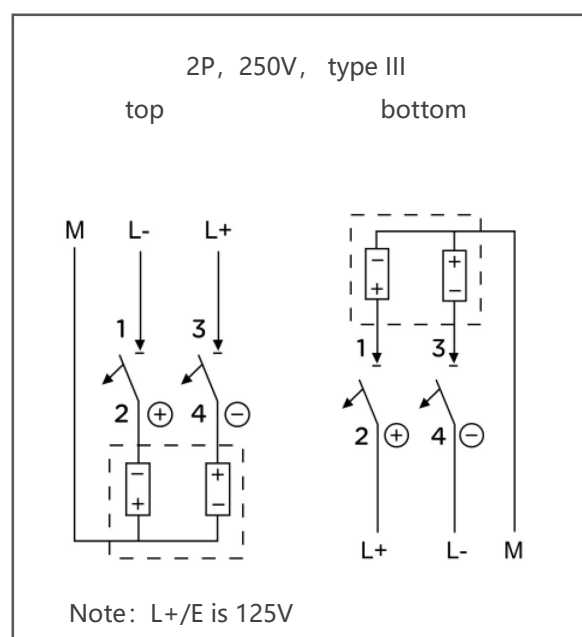
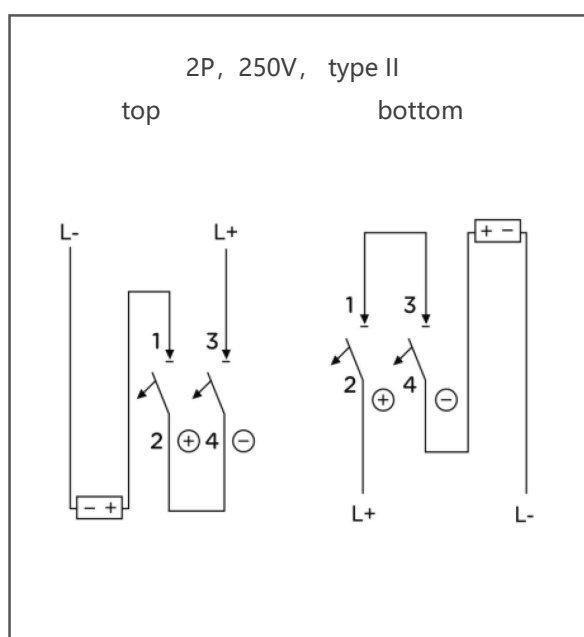
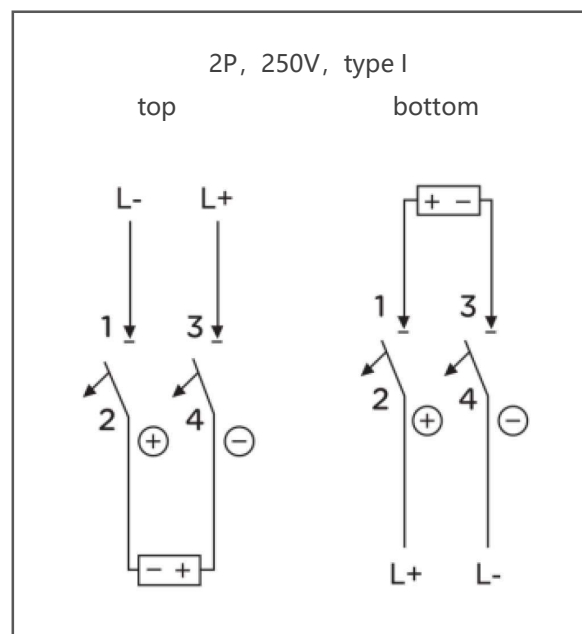
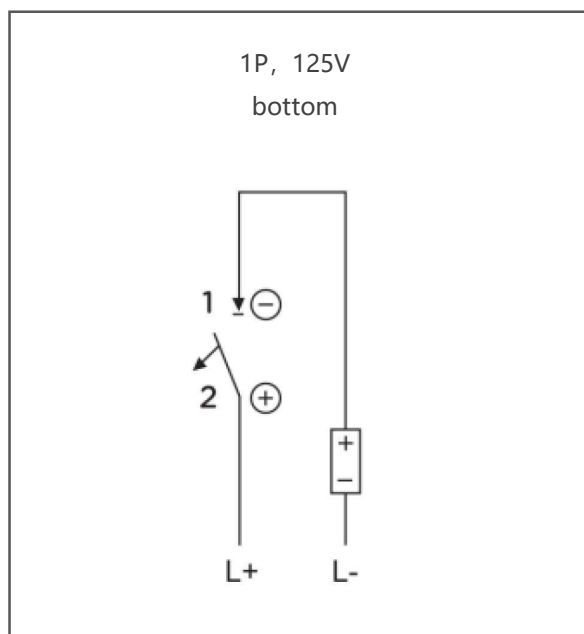
IEC 60947-2, DC

| Poles | Rated voltage | Icn  |
|-------|---------------|------|
| 1P    | DC 125V       | 10kA |
| 2P    | DC 250V       | 10kA |



## DC MCBs

### DC MCBs wiring mode



## DC MCBs

## Ordering data, DC MCBs

|                                                                                    | Poles                                                                                            | Rated current | B curve   |           | C curve    |           |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------|-----------|-----------|------------|-----------|
|                                                                                    |                                                                                                  |               | A         | Type code | Order code | Type code |
|   | 1P<br>18mm<br>  | 1             | A6SDC1B01 | 81679AEN  | A6SDC1C01  | 81692AEN  |
|                                                                                    |                                                                                                  | 2             | A6SDC1B02 | 81680AEN  | A6SDC1C02  | 81693AEN  |
|                                                                                    |                                                                                                  | 3             | A6SDC1B03 | 81681AEN  | A6SDC1C03  | 81694AEN  |
|                                                                                    |                                                                                                  | 4             | A6SDC1B04 | 81682AEN  | A6SDC1C04  | 81695AEN  |
|                                                                                    |                                                                                                  | 6             | A6SDC1B06 | 81683AEN  | A6SDC1C06  | 81696AEN  |
|                                                                                    |                                                                                                  | 10            | A6SDC1B10 | 81684AEN  | A6SDC1C10  | 81697AEN  |
|                                                                                    |                                                                                                  | 16            | A6SDC1B16 | 81685AEN  | A6SDC1C16  | 81698AEN  |
|                                                                                    |                                                                                                  | 20            | A6SDC1B20 | 81686AEN  | A6SDC1C20  | 81699AEN  |
|                                                                                    |                                                                                                  | 25            | A6SDC1B25 | 81687AEN  | A6SDC1C25  | 81700AEN  |
|                                                                                    |                                                                                                  | 32            | A6SDC1B32 | 81688AEN  | A6SDC1C32  | 81701AEN  |
|                                                                                    |                                                                                                  | 40            | A6SDC1B40 | 81689AEN  | A6SDC1C40  | 81702AEN  |
|                                                                                    |                                                                                                  | 50            | A6SDC1B50 | 81690AEN  | A6SDC1C50  | 81703AEN  |
|                                                                                    |                                                                                                  | 63            | A6SDC1B63 | 81691AEN  | A6SDC1C63  | 81704AEN  |
|  | 2P<br>36mm<br> | 1             | A6SDC2B01 | 81705AEN  | A6SDC2C01  | 81718AEN  |
|                                                                                    |                                                                                                  | 2             | A6SDC2B02 | 81706AEN  | A6SDC2C02  | 81719AEN  |
|                                                                                    |                                                                                                  | 3             | A6SDC2B03 | 81707AEN  | A6SDC2C03  | 81720AEN  |
|                                                                                    |                                                                                                  | 4             | A6SDC2B04 | 81708AEN  | A6SDC2C04  | 81721AEN  |
|                                                                                    |                                                                                                  | 6             | A6SDC2B06 | 81709AEN  | A6SDC2C06  | 81722AEN  |
|                                                                                    |                                                                                                  | 10            | A6SDC2B10 | 81710AEN  | A6SDC2C10  | 81723AEN  |
|                                                                                    |                                                                                                  | 16            | A6SDC2B16 | 81711AEN  | A6SDC2C16  | 81724AEN  |
|                                                                                    |                                                                                                  | 20            | A6SDC2B20 | 81712AEN  | A6SDC2C20  | 81725AEN  |
|                                                                                    |                                                                                                  | 25            | A6SDC2B25 | 81713AEN  | A6SDC2C25  | 81726AEN  |
|                                                                                    |                                                                                                  | 32            | A6SDC2B32 | 81714AEN  | A6SDC2C32  | 81727AEN  |
|                                                                                    |                                                                                                  | 40            | A6SDC2B40 | 81715AEN  | A6SDC2C40  | 81728AEN  |
|                                                                                    |                                                                                                  | 50            | A6SDC2B50 | 81716AEN  | A6SDC2C50  | 81729AEN  |
|                                                                                    |                                                                                                  | 63            | A6SDC2B63 | 81717AEN  | A6SDC2C63  | 81730AEN  |

Note: 1P-125V, 2P-250V

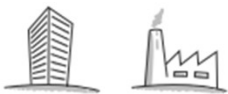
■ **A6L, DC MCBs**



IEC 60947-2

10000

**Applications**



**Certification**



**Accessories**



- Auxiliary contact
- Fault signal contact
- Shunt release

**Products parameter**

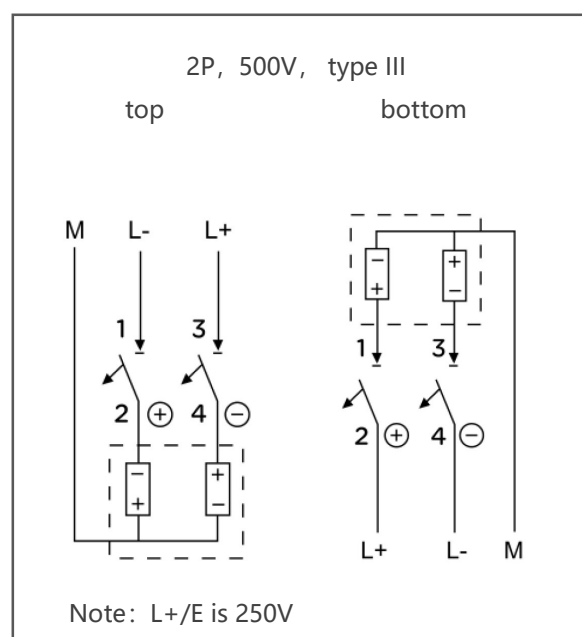
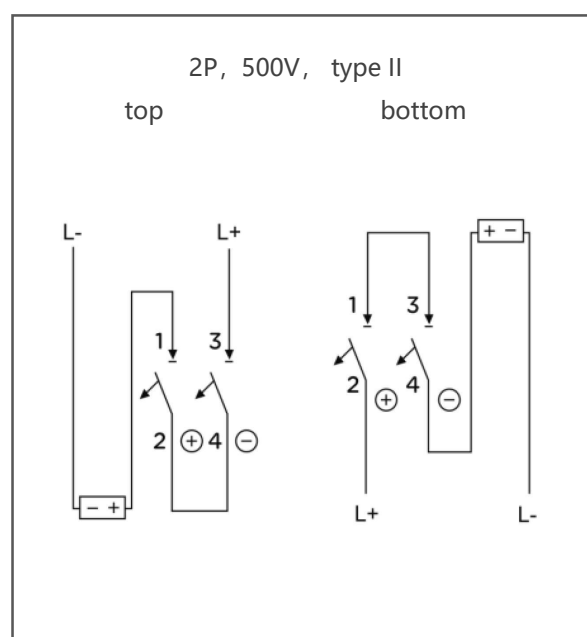
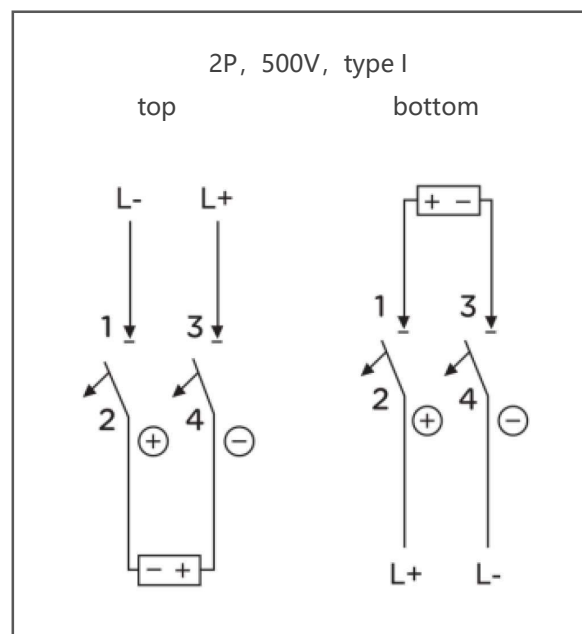
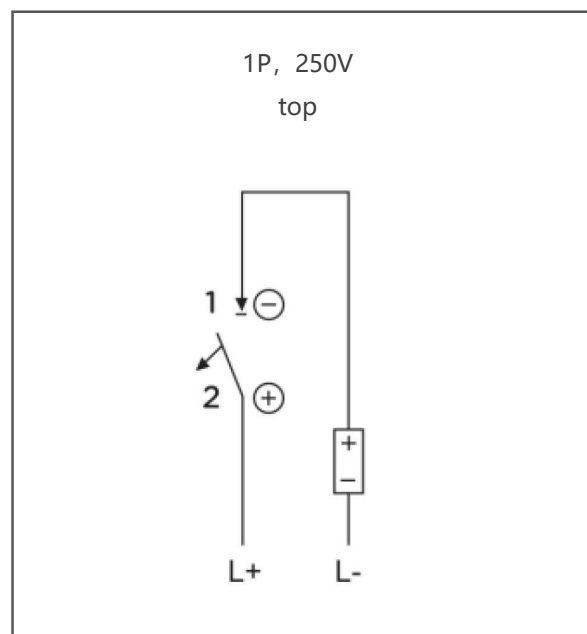
|                            |                 |                                                                                                      |
|----------------------------|-----------------|------------------------------------------------------------------------------------------------------|
| Rated current(In)          | A               | 1-63                                                                                                 |
| Rated voltage(Ue)          | V               | DC 250/500                                                                                           |
| Tripping characteristic    |                 | B, C                                                                                                 |
| Mechanical/electrical life | times           | 20000/10000                                                                                          |
| For isolation              |                 | Yes                                                                                                  |
| Wiring                     | mm <sup>2</sup> | ≤ 35                                                                                                 |
| Poles                      |                 | 1, 2                                                                                                 |
| Overload protection        |                 | ≤ 1.05In, within 1 hour, not tripping(Cold state)<br>≥ 1.3In, within 1 hour, tripping(Thermal state) |
| Short-current protection   |                 | B curve: 5.5In±20%<br>C curve: 8.5In±20%                                                             |

IEC 60947-2, DC

| Poles | Rated voltage | Icn  |
|-------|---------------|------|
| 1P    | DC 250V       | 10kA |
| 2P    | DC 500V       | 10kA |

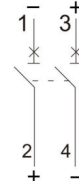
## DC MCBs

### DC MCBs wiring mode



## DC MCBs

## Ordering data, DC MCBs

|                                                                                    | Poles      | Rated current                                                                      | B curve |           | C curve    |           |            |
|------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------|---------|-----------|------------|-----------|------------|
|                                                                                    |            |                                                                                    | A       | Type code | Order code | Type code | Order code |
|   | 1P<br>18mm |   | 1       | A6LDC1B01 | 81757AEN   | A6LDC1C01 | 81770AEN   |
|                                                                                    |            |                                                                                    | 2       | A6LDC1B02 | 81758AEN   | A6LDC1C02 | 81771AEN   |
|                                                                                    |            |                                                                                    | 3       | A6LDC1B03 | 81759AEN   | A6LDC1C03 | 81772AEN   |
|                                                                                    |            |                                                                                    | 4       | A6LDC1B04 | 81760AEN   | A6LDC1C04 | 81773AEN   |
|                                                                                    |            |                                                                                    | 6       | A6LDC1B06 | 81761AEN   | A6LDC1C06 | 81774AEN   |
|                                                                                    |            |                                                                                    | 10      | A6LDC1B10 | 81762AEN   | A6LDC1C10 | 81775AEN   |
|                                                                                    |            |                                                                                    | 16      | A6LDC1B16 | 81763AEN   | A6LDC1C16 | 81776AEN   |
|                                                                                    |            |                                                                                    | 20      | A6LDC1B20 | 81764AEN   | A6LDC1C20 | 81777AEN   |
|                                                                                    |            |                                                                                    | 25      | A6LDC1B25 | 81765AEN   | A6LDC1C25 | 81778AEN   |
|                                                                                    |            |                                                                                    | 32      | A6LDC1B32 | 81766AEN   | A6LDC1C32 | 81779AEN   |
|                                                                                    |            |                                                                                    | 40      | A6LDC1B40 | 81767AEN   | A6LDC1C40 | 81780AEN   |
|                                                                                    |            |                                                                                    | 50      | A6LDC1B50 | 81768AEN   | A6LDC1C50 | 81781AEN   |
|                                                                                    |            |                                                                                    | 63      | A6LDC1B63 | 81769AEN   | A6LDC1C63 | 81782AEN   |
|  | 2P<br>36mm |  | 1       | A6LDC2B01 | 81783AEN   | A6LDC2C01 | 81796AEN   |
|                                                                                    |            |                                                                                    | 2       | A6LDC2B02 | 81784AEN   | A6LDC2C02 | 81797AEN   |
|                                                                                    |            |                                                                                    | 3       | A6LDC2B03 | 81785AEN   | A6LDC2C03 | 81798AEN   |
|                                                                                    |            |                                                                                    | 4       | A6LDC2B04 | 81786AEN   | A6LDC2C04 | 81799AEN   |
|                                                                                    |            |                                                                                    | 6       | A6LDC2B06 | 81787AEN   | A6LDC2C06 | 81800AEN   |
|                                                                                    |            |                                                                                    | 10      | A6LDC2B10 | 81788AEN   | A6LDC2C10 | 81801AEN   |
|                                                                                    |            |                                                                                    | 16      | A6LDC2B16 | 81789AEN   | A6LDC2C16 | 81802AEN   |
|                                                                                    |            |                                                                                    | 20      | A6LDC2B20 | 81790AEN   | A6LDC2C20 | 81803AEN   |
|                                                                                    |            |                                                                                    | 25      | A6LDC2B25 | 81791AEN   | A6LDC2C25 | 81804AEN   |
|                                                                                    |            |                                                                                    | 32      | A6LDC2B32 | 81792AEN   | A6LDC2C32 | 81805AEN   |
|                                                                                    |            |                                                                                    | 40      | A6LDC2B40 | 81793AEN   | A6LDC2C40 | 81806AEN   |
|                                                                                    |            |                                                                                    | 50      | A6LDC2B50 | 81794AEN   | A6LDC2C50 | 81807AEN   |
|                                                                                    |            |                                                                                    | 63      | A6LDC2B63 | 81795AEN   | A6LDC2C63 | 81808AEN   |

Note: 1P-250V, 2P-500V



■ **A6MT Disconnect switch**



IEC60947-3

**Products parameter**

Applications



Certification



|                            |                 |             |
|----------------------------|-----------------|-------------|
| Rated current(In)          | A               | 40-125      |
| Rated voltage(Ue)          | V               | AC 230/400  |
| Mechanical/electrical life | times           | 20000/10000 |
| Status display             |                 | Yes         |
| Wiring                     | mm <sup>2</sup> | ≤ 35        |
| Poles                      |                 | 1, 2, 3, 4  |
| Rated frequency            | Hz              | 50/60       |
| Isolation                  |                 | Yes         |
| Utilization category       |                 | AC-22A      |

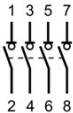
IEC 60947-3

| Poles | In    | t  |
|-------|-------|----|
| 1-4P  | 2000A | 1s |

Elfa A6 Modular DIN-rail devices

**DISCONNECT SWITCH**

Ordering data, A6MT

|                                                                                     | 极数                                                                                  | 额定电流 |           |            |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|-----------|------------|
|                                                                                     |                                                                                     | A    | Type code | Order code |
|    | 1P                                                                                  | 40   | A6M1T040  | 8566001AEN |
|                                                                                     | 18mm                                                                                | 63   | A6M1T063  | 8566002AEN |
|                                                                                     |                                                                                     | 80   | A6M1T080  | 8566003AEN |
|                                                                                     |                                                                                     | 100  | A6M1T100  | 8566004AEN |
|                                                                                     |                                                                                     | 125  | A6M1T125  | 8566005AEN |
|                                                                                     |    |      |           |            |
|   | 2P                                                                                  | 40   | A6M2T040  | 8566006AEN |
|                                                                                     | 36mm                                                                                | 63   | A6M2T063  | 8566007AEN |
|                                                                                     |                                                                                     | 80   | A6M2T080  | 8566008AEN |
|                                                                                     |                                                                                     | 100  | A6M2T100  | 8566009AEN |
|                                                                                     |                                                                                     | 125  | A6M2T125  | 8566010AEN |
|                                                                                     |   |      |           |            |
|  | 3P                                                                                  | 40   | A6M3T040  | 8566011AEN |
|                                                                                     | 54mm                                                                                | 63   | A6M3T063  | 8566012AEN |
|                                                                                     |                                                                                     | 80   | A6M3T080  | 8566013AEN |
|                                                                                     |                                                                                     | 100  | A6M3T100  | 8566014AEN |
|                                                                                     |                                                                                     | 125  | A6M3T125  | 8566015AEN |
|                                                                                     |  |      |           |            |
|  | 4P                                                                                  | 40   | A6M4T040  | 8566016AEN |
|                                                                                     | 72mm                                                                                | 63   | A6M4T063  | 8566017AEN |
|                                                                                     |                                                                                     | 80   | A6M4T080  | 8566018AEN |
|                                                                                     |                                                                                     | 100  | A6M4T100  | 8566019AEN |
|                                                                                     |                                                                                     | 125  | A6M4T125  | 8566020AEN |
|                                                                                     |  |      |           |            |

■ **A6MR compact RCBO**



IEC 61009-1

6000

3

**Products parameter**

|                            |                 |                                                                                                       |
|----------------------------|-----------------|-------------------------------------------------------------------------------------------------------|
| Rated current(In)          | A               | 6-40                                                                                                  |
| Rated voltage(Ue)          | V               | AC 230                                                                                                |
| Tripping characteristic    |                 | C                                                                                                     |
| Current limiting level     |                 | 3                                                                                                     |
| Mechanical/electrical life | times           | 20000/10000                                                                                           |
| Wiring capacity            | mm <sup>2</sup> | ≤ 16                                                                                                  |
| Poles                      |                 | 1P+N                                                                                                  |
| Overload protection        |                 | ≤ 1.13In, within 1 hour, not tripping(Cold state)<br>≥ 1.45In, within 1 hour, tripping(Thermal state) |
| Short-current protection   | mA              | C curve: 5-10In                                                                                       |
| Residual type              |                 | AC, A                                                                                                 |
| IΔn                        |                 | 30                                                                                                    |
| Wiring type                |                 | Top in, bottom out                                                                                    |

**Applications**



**Certification**



**Accessories**

- Auxiliary contact
- Fault signal contact
- Shunt release

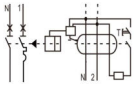
IEC 61009-1, AC

| Poles | Rated voltage | Icn |
|-------|---------------|-----|
| 1P+N  | 230V          | 6kA |

Rated short-circuit making and tripping capacity(IΔm): 3kA

**Ordering data of A6MR**

|                                                                                                                                                                        | Poles | Rated current | Residual current      |                       | Curve C     |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------|-----------------------|-----------------------|-------------|------------|
|                                                                                                                                                                        |       |               | Residual current type | Residual current, IΔn | Type code   | Order code |
|                                                                                                                                                                        |       |               |                       |                       |             |            |
| <br> | 1P+N  |               |                       |                       |             |            |
|                                                                                                                                                                        | 36mm  | 6             | AC                    | 30mA                  | A6MRC06/030 | 81508AEN   |
|                                                                                                                                                                        |       | 10            | AC                    | 30mA                  | A6MRC10/030 | 81509AEN   |
|                                                                                                                                                                        |       | 16            | AC                    | 30mA                  | A6MRC16/030 | 81510AEN   |
|                                                                                                                                                                        |       | 20            | AC                    | 30mA                  | A6MRC20/030 | 81511AEN   |
|                                                                                                                                                                        |       | 25            | AC                    | 30mA                  | A6MRC25/030 | 81512AEN   |
|                                                                                                                                                                        |       | 32            | AC                    | 30mA                  | A6MRC32/030 | 81513AEN   |
| 40                                                                                                                                                                     | AC    | 30mA          | A6MRC40/030           | 81514AEN              |             |            |

|                                                                                                                                                                           |      |      |    |   |      |              |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|---|------|--------------|----------|
| <br> | 1P+N | 36mm | 6  | A | 30mA | A6MRC06/030H | 81515AEN |
|                                                                                                                                                                           |      |      | 10 | A | 30mA | A6MRC10/030H | 81516AEN |
|                                                                                                                                                                           |      |      | 16 | A | 30mA | A6MRC16/030H | 81517AEN |
|                                                                                                                                                                           |      |      | 20 | A | 30mA | A6MRC20/030H | 81518AEN |
|                                                                                                                                                                           |      |      | 25 | A | 30mA | A6MRC25/030H | 81519AEN |
|                                                                                                                                                                           |      |      | 32 | A | 30mA | A6MRC32/030H | 81520AEN |
|                                                                                                                                                                           |      |      | 40 | A | 30mA | A6MRC40/030H | 81521AEN |

■ **A6MED Assembled RCBO, 6kA**



IEC 61009-1

6000

3

**Products parameter**

|                            |                 |                                                                                                                 |
|----------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------|
| Rated current( $I_n$ )     | A               | 6-63                                                                                                            |
| Rated voltage( $U_e$ )     | V               | AC 230/400                                                                                                      |
| Tripping characteristic    |                 | C, D                                                                                                            |
| Current limiting level     |                 | 3                                                                                                               |
| Mechanical/electrical life | times           | 20000/10000                                                                                                     |
| Wiring capacity            | mm <sup>2</sup> | ≤ 35                                                                                                            |
| Poles                      |                 | 2P, 3P, 4P                                                                                                      |
| Overload protection        |                 | ≤ 1.13 $I_n$ , within 1 hour, not tripping(Cold state)<br>≥ 1.45 $I_n$ , within 1 hour, tripping(Thermal state) |
| Short-current protection   |                 | C curve: 5-10 $I_n$<br>D curve: 10-20 $I_n$                                                                     |
| Residual type              |                 | AC, A                                                                                                           |
| $I_{\Delta n}$             | mA              | 30, 100                                                                                                         |
| Wiring type                |                 | Top in, bottom out                                                                                              |

**Applications**



**Certification**



**Accessories**



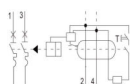
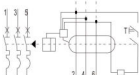
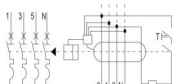
- Auxiliary contact
- Fault signal contact
- Shunt release

IEC61009, AC

| Poles      | Rated voltage | $I_{cn}$ |
|------------|---------------|----------|
| 2P, 3P, 4P | 230/400V      | 6kA      |

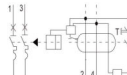
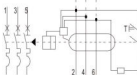
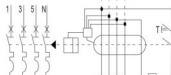
Rated short-circuit making and tripping capacity( $I_{\Delta m}$ ): 6kA

## Ordering data of A6MED, residual type AC, 30mA

| Poles       | Rated current                                                                       | Residual current |                       | Curve C                        |               | Curve D    |               |            |
|-------------|-------------------------------------------------------------------------------------|------------------|-----------------------|--------------------------------|---------------|------------|---------------|------------|
|             |                                                                                     | A                | Residual current type | Residual current, I $\Delta$ n | Type code     | Order code | Type code     | Order code |
| 2P<br>72mm  |    | 6                | AC                    | 30mA                           | A6MED2C06/030 | 82019AEN   | A6MED2D06/030 | 82028AEN   |
|             |                                                                                     | 10               | AC                    | 30mA                           | A6MED2C10/030 | 82020AEN   | A6MED2D10/030 | 82029AEN   |
|             |                                                                                     | 16               | AC                    | 30mA                           | A6MED2C16/030 | 82021AEN   | A6MED2D16/030 | 82030AEN   |
|             |                                                                                     | 20               | AC                    | 30mA                           | A6MED2C20/030 | 82022AEN   | A6MED2D20/030 | 82031AEN   |
|             |                                                                                     | 25               | AC                    | 30mA                           | A6MED2C25/030 | 82023AEN   | A6MED2D25/030 | 82032AEN   |
|             |                                                                                     | 32               | AC                    | 30mA                           | A6MED2C32/030 | 82024AEN   | A6MED2D32/030 | 82033AEN   |
|             |                                                                                     | 40               | AC                    | 30mA                           | A6MED2C40/030 | 82025AEN   | A6MED2D40/030 | 82034AEN   |
|             |                                                                                     | 50               | AC                    | 30mA                           | A6MED2C50/030 | 82026AEN   | A6MED2D50/030 | 82035AEN   |
|             |                                                                                     | 63               | AC                    | 30mA                           | A6MED2C63/030 | 82027AEN   | A6MED2D63/030 | 82036AEN   |
|             |                                                                                     |                  |                       |                                |               |            |               |            |
|             |                                                                                     |                  |                       |                                |               |            |               |            |
|             |                                                                                     |                  |                       |                                |               |            |               |            |
|             |                                                                                     |                  |                       |                                |               |            |               |            |
| 3P<br>108mm |  | 6                | AC                    | 30mA                           | A6MED3C06/030 | 82037AEN   | A6MED3D06/030 | 82046AEN   |
|             |                                                                                     | 10               | AC                    | 30mA                           | A6MED3C10/030 | 82038AEN   | A6MED3D10/030 | 82047AEN   |
|             |                                                                                     | 16               | AC                    | 30mA                           | A6MED3C16/030 | 82039AEN   | A6MED3D16/030 | 82048AEN   |
|             |                                                                                     | 20               | AC                    | 30mA                           | A6MED3C20/030 | 82040AEN   | A6MED3D20/030 | 82049AEN   |
|             |                                                                                     | 25               | AC                    | 30mA                           | A6MED3C25/030 | 82041AEN   | A6MED3D25/030 | 82050AEN   |
|             |                                                                                     | 32               | AC                    | 30mA                           | A6MED3C32/030 | 82042AEN   | A6MED3D32/030 | 82051AEN   |
|             |                                                                                     | 40               | AC                    | 30mA                           | A6MED3C40/030 | 82043AEN   | A6MED3D40/030 | 82052AEN   |
|             |                                                                                     | 50               | AC                    | 30mA                           | A6MED3C50/030 | 82044AEN   | A6MED3D50/030 | 82053AEN   |
|             |                                                                                     | 63               | AC                    | 30mA                           | A6MED3C63/030 | 82045AEN   | A6MED3D63/030 | 82054AEN   |
|             |                                                                                     |                  |                       |                                |               |            |               |            |
|             |                                                                                     |                  |                       |                                |               |            |               |            |
|             |                                                                                     |                  |                       |                                |               |            |               |            |
|             |                                                                                     |                  |                       |                                |               |            |               |            |
| 4P<br>135mm |  | 6                | AC                    | 30mA                           | A6MED4C06/030 | 82073AEN   | A6MED4D06/030 | 82082AEN   |
|             |                                                                                     | 10               | AC                    | 30mA                           | A6MED4C10/030 | 82074AEN   | A6MED4D10/030 | 82083AEN   |
|             |                                                                                     | 16               | AC                    | 30mA                           | A6MED4C16/030 | 82075AEN   | A6MED4D16/030 | 82084AEN   |
|             |                                                                                     | 20               | AC                    | 30mA                           | A6MED4C20/030 | 82076AEN   | A6MED4D20/030 | 82085AEN   |
|             |                                                                                     | 25               | AC                    | 30mA                           | A6MED4C25/030 | 82077AEN   | A6MED4D25/030 | 82086AEN   |
|             |                                                                                     | 32               | AC                    | 30mA                           | A6MED4C32/030 | 82078AEN   | A6MED4D32/030 | 82087AEN   |
|             |                                                                                     | 40               | AC                    | 30mA                           | A6MED4C40/030 | 82079AEN   | A6MED4D40/030 | 82088AEN   |
|             |                                                                                     | 50               | AC                    | 30mA                           | A6MED4C50/030 | 82080AEN   | A6MED4D50/030 | 82089AEN   |
|             |                                                                                     | 63               | AC                    | 30mA                           | A6MED4C63/030 | 82081AEN   | A6MED4D63/030 | 82090AEN   |
|             |                                                                                     |                  |                       |                                |               |            |               |            |
|             |                                                                                     |                  |                       |                                |               |            |               |            |
|             |                                                                                     |                  |                       |                                |               |            |               |            |
|             |                                                                                     |                  |                       |                                |               |            |               |            |



## Ordering data of A6MED, residual type A, 30mA

| Poles       | Rated current                                                                       | Residual current |                       | Curve C                        |                | Curve D    |                |            |
|-------------|-------------------------------------------------------------------------------------|------------------|-----------------------|--------------------------------|----------------|------------|----------------|------------|
|             |                                                                                     | A                | Residual current type | Residual current, I $\Delta$ n | Type code      | Order code | Type code      | Order code |
| 2P<br>72mm  |    | 6                | A                     | 30mA                           | A6MED2C06/030H | 82289AEN   | A6MED2D06/030H | 82298AEN   |
|             |                                                                                     | 10               | A                     | 30mA                           | A6MED2C10/030H | 82290AEN   | A6MED2D10/030H | 82299AEN   |
|             |                                                                                     | 16               | A                     | 30mA                           | A6MED2C16/030H | 82291AEN   | A6MED2D16/030H | 82300AEN   |
|             |                                                                                     | 20               | A                     | 30mA                           | A6MED2C20/030H | 82292AEN   | A6MED2D20/030H | 82301AEN   |
|             |                                                                                     | 25               | A                     | 30mA                           | A6MED2C25/030H | 82293AEN   | A6MED2D25/030H | 82302AEN   |
|             |                                                                                     | 32               | A                     | 30mA                           | A6MED2C32/030H | 82294AEN   | A6MED2D32/030H | 82303AEN   |
|             |                                                                                     | 40               | A                     | 30mA                           | A6MED2C40/030H | 82295AEN   | A6MED2D40/030H | 82304AEN   |
|             |                                                                                     | 50               | A                     | 30mA                           | A6MED2C50/030H | 82296AEN   | A6MED2D50/030H | 82305AEN   |
|             |                                                                                     | 63               | A                     | 30mA                           | A6MED2C63/030H | 82297AEN   | A6MED2D63/030H | 82306AEN   |
|             |                                                                                     |                  |                       |                                |                |            |                |            |
| 3P<br>108mm |  | 6                | A                     | 30mA                           | A6MED3C06/030H | 82307AEN   | A6MED3D06/030H | 82316AEN   |
|             |                                                                                     | 10               | A                     | 30mA                           | A6MED3C10/030H | 82308AEN   | A6MED3D10/030H | 82317AEN   |
|             |                                                                                     | 16               | A                     | 30mA                           | A6MED3C16/030H | 82309AEN   | A6MED3D16/030H | 82318AEN   |
|             |                                                                                     | 20               | A                     | 30mA                           | A6MED3C20/030H | 82310AEN   | A6MED3D20/030H | 82319AEN   |
|             |                                                                                     | 25               | A                     | 30mA                           | A6MED3C25/030H | 82311AEN   | A6MED3D25/030H | 82320AEN   |
|             |                                                                                     | 32               | A                     | 30mA                           | A6MED3C32/030H | 82312AEN   | A6MED3D32/030H | 82321AEN   |
|             |                                                                                     | 40               | A                     | 30mA                           | A6MED3C40/030H | 82313AEN   | A6MED3D40/030H | 82322AEN   |
|             |                                                                                     | 50               | A                     | 30mA                           | A6MED3C50/030H | 82314AEN   | A6MED3D50/030H | 82323AEN   |
|             |                                                                                     | 63               | A                     | 30mA                           | A6MED3C63/030H | 82315AEN   | A6MED3D63/030H | 82324AEN   |
|             |                                                                                     |                  |                       |                                |                |            |                |            |
| 4P<br>135mm |  | 6                | A                     | 30mA                           | A6MED4C06/030H | 82343AEN   | A6MED4D06/030H | 82352AEN   |
|             |                                                                                     | 10               | A                     | 30mA                           | A6MED4C10/030H | 82344AEN   | A6MED4D10/030H | 82353AEN   |
|             |                                                                                     | 16               | A                     | 30mA                           | A6MED4C16/030H | 82345AEN   | A6MED4D16/030H | 82354AEN   |
|             |                                                                                     | 20               | A                     | 30mA                           | A6MED4C20/030H | 82346AEN   | A6MED4D20/030H | 82355AEN   |
|             |                                                                                     | 25               | A                     | 30mA                           | A6MED4C25/030H | 82347AEN   | A6MED4D25/030H | 82356AEN   |
|             |                                                                                     | 32               | A                     | 30mA                           | A6MED4C32/030H | 82348AEN   | A6MED4D32/030H | 82357AEN   |
|             |                                                                                     | 40               | A                     | 30mA                           | A6MED4C40/030H | 82349AEN   | A6MED4D40/030H | 82358AEN   |
|             |                                                                                     | 50               | A                     | 30mA                           | A6MED4C50/030H | 82350AEN   | A6MED4D50/030H | 82359AEN   |
|             |                                                                                     | 63               | A                     | 30mA                           | A6MED4C63/030H | 82351AEN   | A6MED4D63/030H | 82360AEN   |
|             |                                                                                     |                  |                       |                                |                |            |                |            |

■ **A6SED Assembled RCBO, 10kA**



IEC 61009-1

10000  
3

**Products parameter**

|                            |                 |                                                                                                       |
|----------------------------|-----------------|-------------------------------------------------------------------------------------------------------|
| Rated current(In)          | A               | 6-63                                                                                                  |
| Rated voltage(Ue)          | V               | AC 230/400                                                                                            |
| Tripping characteristic    |                 | C, D                                                                                                  |
| Current limiting level     |                 | 3                                                                                                     |
| Mechanical/electrical life | times           | 20000/10000                                                                                           |
| Wiring capacity            | mm <sup>2</sup> | ≤ 35                                                                                                  |
| Poles                      |                 | 2P, 3P, 4P                                                                                            |
| Overload protection        |                 | ≤ 1.13In, within 1 hour, not tripping(Cold state)<br>≥ 1.45In, within 1 hour, tripping(Thermal state) |
| Short-current protection   |                 | C curve: 5-10In<br>D curve: 10-20In                                                                   |
| Residual type              |                 | AC, A                                                                                                 |
| IΔn                        | mA              | 30, 100                                                                                               |
| Wiring type                |                 | Top in, bottom out                                                                                    |

**Applications**



**Certification**



**Accessories**



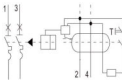
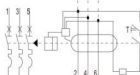
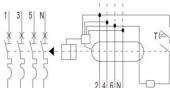
- Auxiliary contact
- Fault signal contact
- Shunt release

IEC 61009-1, AC

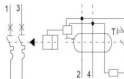
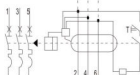
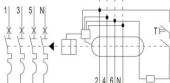
| Poles      | Rated voltage | Icn  |
|------------|---------------|------|
| 2P, 3P, 4P | 230/400V      | 10kA |

Rated short-circuit making and tripping capacity(IΔm): 6kA

## Ordering data of A6SED, residual type AC, 30mA

|                                                                                     | Poles                                                                               | Rated current | Residual current      |                                | Curve C       |               | Curve D       |            |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|-----------------------|--------------------------------|---------------|---------------|---------------|------------|
|                                                                                     |                                                                                     | A             | Residual current type | Residual current, I $\Delta$ n | Type code     | Order code    | Type code     | Order code |
|    | 2P                                                                                  |               |                       |                                |               |               |               |            |
|                                                                                     | 72mm                                                                                |               |                       |                                |               |               |               |            |
|                                                                                     |    | 6             | AC                    | 30mA                           | A6SED2C06/030 | 82559AEN      | A6SED2D06/030 | 82568AEN   |
|                                                                                     |                                                                                     | 10            | AC                    | 30mA                           | A6SED2C10/030 | 82560AEN      | A6SED2D10/030 | 82569AEN   |
|                                                                                     |                                                                                     | 16            | AC                    | 30mA                           | A6SED2C16/030 | 82561AEN      | A6SED2D16/030 | 82570AEN   |
|                                                                                     |                                                                                     | 20            | AC                    | 30mA                           | A6SED2C20/030 | 82562AEN      | A6SED2D20/030 | 82571AEN   |
|                                                                                     |                                                                                     | 25            | AC                    | 30mA                           | A6SED2C25/030 | 82563AEN      | A6SED2D25/030 | 82572AEN   |
|                                                                                     |                                                                                     | 32            | AC                    | 30mA                           | A6SED2C32/030 | 82564AEN      | A6SED2D32/030 | 82573AEN   |
|                                                                                     |                                                                                     | 40            | AC                    | 30mA                           | A6SED2C40/030 | 82565AEN      | A6SED2D40/030 | 82574AEN   |
|                                                                                     |                                                                                     | 50            | AC                    | 30mA                           | A6SED2C50/030 | 82566AEN      | A6SED2D50/030 | 82575AEN   |
|                                                                                     | 63                                                                                  | AC            | 30mA                  | A6SED2C63/030                  | 82567AEN      | A6SED2D63/030 | 82576AEN      |            |
|                                                                                     |                                                                                     |               |                       |                                |               |               |               |            |
|                                                                                     |                                                                                     |               |                       |                                |               |               |               |            |
|                                                                                     |                                                                                     |               |                       |                                |               |               |               |            |
|                                                                                     |                                                                                     |               |                       |                                |               |               |               |            |
|  | 3P                                                                                  |               |                       |                                |               |               |               |            |
|                                                                                     | 108mm                                                                               |               |                       |                                |               |               |               |            |
|                                                                                     |  | 6             | AC                    | 30mA                           | A6SED3C06/030 | 82577AEN      | A6SED3D06/030 | 82586AEN   |
|                                                                                     |                                                                                     | 10            | AC                    | 30mA                           | A6SED3C10/030 | 82578AEN      | A6SED3D10/030 | 82587AEN   |
|                                                                                     |                                                                                     | 16            | AC                    | 30mA                           | A6SED3C16/030 | 82579AEN      | A6SED3D16/030 | 82588AEN   |
|                                                                                     |                                                                                     | 20            | AC                    | 30mA                           | A6SED3C20/030 | 82580AEN      | A6SED3D20/030 | 82589AEN   |
|                                                                                     |                                                                                     | 25            | AC                    | 30mA                           | A6SED3C25/030 | 82581AEN      | A6SED3D25/030 | 82590AEN   |
|                                                                                     |                                                                                     | 32            | AC                    | 30mA                           | A6SED3C32/030 | 82582AEN      | A6SED3D32/030 | 82591AEN   |
|                                                                                     |                                                                                     | 40            | AC                    | 30mA                           | A6SED3C40/030 | 82583AEN      | A6SED3D40/030 | 82592AEN   |
|                                                                                     |                                                                                     | 50            | AC                    | 30mA                           | A6SED3C50/030 | 82584AEN      | A6SED3D50/030 | 82593AEN   |
|                                                                                     | 63                                                                                  | AC            | 30mA                  | A6SED3C63/030                  | 82585AEN      | A6SED3D63/030 | 82594AEN      |            |
|                                                                                     |                                                                                     |               |                       |                                |               |               |               |            |
|                                                                                     |                                                                                     |               |                       |                                |               |               |               |            |
|                                                                                     |                                                                                     |               |                       |                                |               |               |               |            |
|                                                                                     |                                                                                     |               |                       |                                |               |               |               |            |
|  | 4P                                                                                  |               |                       |                                |               |               |               |            |
|                                                                                     | 135mm                                                                               |               |                       |                                |               |               |               |            |
|                                                                                     |  | 6             | AC                    | 30mA                           | A6SED4C06/030 | 82613AEN      | A6SED4D06/030 | 82622AEN   |
|                                                                                     |                                                                                     | 10            | AC                    | 30mA                           | A6SED4C10/030 | 82614AEN      | A6SED4D10/030 | 82623AEN   |
|                                                                                     |                                                                                     | 16            | AC                    | 30mA                           | A6SED4C16/030 | 82615AEN      | A6SED4D16/030 | 82624AEN   |
|                                                                                     |                                                                                     | 20            | AC                    | 30mA                           | A6SED4C20/030 | 82616AEN      | A6SED4D20/030 | 82625AEN   |
|                                                                                     |                                                                                     | 25            | AC                    | 30mA                           | A6SED4C25/030 | 82617AEN      | A6SED4D25/030 | 82626AEN   |
|                                                                                     |                                                                                     | 32            | AC                    | 30mA                           | A6SED4C32/030 | 82618AEN      | A6SED4D32/030 | 82627AEN   |
|                                                                                     |                                                                                     | 40            | AC                    | 30mA                           | A6SED4C40/030 | 82619AEN      | A6SED4D40/030 | 82628AEN   |
|                                                                                     |                                                                                     | 50            | AC                    | 30mA                           | A6SED4C50/030 | 82620AEN      | A6SED4D50/030 | 82629AEN   |
|                                                                                     | 63                                                                                  | AC            | 30mA                  | A6SED4C63/030                  | 82621AEN      | A6SED4D63/030 | 82630AEN      |            |
|                                                                                     |                                                                                     |               |                       |                                |               |               |               |            |
|                                                                                     |                                                                                     |               |                       |                                |               |               |               |            |
|                                                                                     |                                                                                     |               |                       |                                |               |               |               |            |
|                                                                                     |                                                                                     |               |                       |                                |               |               |               |            |

## Ordering data of A6SED, residual type A, 30mA

|                                                                                     | Poles                                                                               | Rated current | Residual current      |                       | Curve C        |                | Curve D        |            |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|-----------------------|-----------------------|----------------|----------------|----------------|------------|
|                                                                                     |                                                                                     | A             | Residual current type | Residual current, IΔn | Type code      | Order code     | Type code      | Order code |
|    | 2P                                                                                  |               |                       |                       |                |                |                |            |
|                                                                                     | 72mm                                                                                |               |                       |                       |                |                |                |            |
|                                                                                     |    | 6             | A                     | 30mA                  | A6SED2C06/030H | 82829AEN       | A6SED2D06/030H | 82838AEN   |
|                                                                                     |                                                                                     | 10            | A                     | 30mA                  | A6SED2C10/030H | 82830AEN       | A6SED2D10/030H | 82839AEN   |
|                                                                                     |                                                                                     | 16            | A                     | 30mA                  | A6SED2C16/030H | 82831AEN       | A6SED2D16/030H | 82840AEN   |
|                                                                                     |                                                                                     | 20            | A                     | 30mA                  | A6SED2C20/030H | 82832AEN       | A6SED2D20/030H | 82841AEN   |
|                                                                                     |                                                                                     | 25            | A                     | 30mA                  | A6SED2C25/030H | 82833AEN       | A6SED2D25/030H | 82842AEN   |
|                                                                                     |                                                                                     | 32            | A                     | 30mA                  | A6SED2C32/030H | 82834AEN       | A6SED2D32/030H | 82843AEN   |
|                                                                                     |                                                                                     | 40            | A                     | 30mA                  | A6SED2C40/030H | 82835AEN       | A6SED2D40/030H | 82844AEN   |
|                                                                                     |                                                                                     | 50            | A                     | 30mA                  | A6SED2C50/030H | 82836AEN       | A6SED2D50/030H | 82845AEN   |
|                                                                                     | 63                                                                                  | A             | 30mA                  | A6SED2C63/030H        | 82837AEN       | A6SED2D63/030H | 82846AEN       |            |
|                                                                                     |                                                                                     |               |                       |                       |                |                |                |            |
|                                                                                     |                                                                                     |               |                       |                       |                |                |                |            |
|                                                                                     |                                                                                     |               |                       |                       |                |                |                |            |
|  | 3P                                                                                  |               |                       |                       |                |                |                |            |
|                                                                                     | 108mm                                                                               |               |                       |                       |                |                |                |            |
|                                                                                     |  | 6             | A                     | 30mA                  | A6SED3C06/030H | 82847AEN       | A6SED3D06/030H | 82856AEN   |
|                                                                                     |                                                                                     | 10            | A                     | 30mA                  | A6SED3C10/030H | 82848AEN       | A6SED3D10/030H | 82857AEN   |
|                                                                                     |                                                                                     | 16            | A                     | 30mA                  | A6SED3C16/030H | 82849AEN       | A6SED3D16/030H | 82858AEN   |
|                                                                                     |                                                                                     | 20            | A                     | 30mA                  | A6SED3C20/030H | 82850AEN       | A6SED3D20/030H | 82859AEN   |
|                                                                                     |                                                                                     | 25            | A                     | 30mA                  | A6SED3C25/030H | 82851AEN       | A6SED3D25/030H | 82860AEN   |
|                                                                                     |                                                                                     | 32            | A                     | 30mA                  | A6SED3C32/030H | 82852AEN       | A6SED3D32/030H | 82861AEN   |
|                                                                                     |                                                                                     | 40            | A                     | 30mA                  | A6SED3C40/030H | 82853AEN       | A6SED3D40/030H | 82862AEN   |
|                                                                                     |                                                                                     | 50            | A                     | 30mA                  | A6SED3C50/030H | 82854AEN       | A6SED3D50/030H | 82863AEN   |
|                                                                                     | 63                                                                                  | A             | 30mA                  | A6SED3C63/030H        | 82855AEN       | A6SED3D63/030H | 82864AEN       |            |
|                                                                                     |                                                                                     |               |                       |                       |                |                |                |            |
|                                                                                     |                                                                                     |               |                       |                       |                |                |                |            |
|                                                                                     |                                                                                     |               |                       |                       |                |                |                |            |
|  | 4P                                                                                  |               |                       |                       |                |                |                |            |
|                                                                                     | 135mm                                                                               |               |                       |                       |                |                |                |            |
|                                                                                     |  | 6             | A                     | 30mA                  | A6SED4C06/030H | 82883AEN       | A6SED4D06/030H | 82892AEN   |
|                                                                                     |                                                                                     | 10            | A                     | 30mA                  | A6SED4C10/030H | 82884AEN       | A6SED4D10/030H | 82893AEN   |
|                                                                                     |                                                                                     | 16            | A                     | 30mA                  | A6SED4C16/030H | 82885AEN       | A6SED4D16/030H | 82894AEN   |
|                                                                                     |                                                                                     | 20            | A                     | 30mA                  | A6SED4C20/030H | 82886AEN       | A6SED4D20/030H | 82895AEN   |
|                                                                                     |                                                                                     | 25            | A                     | 30mA                  | A6SED4C25/030H | 82887AEN       | A6SED4D25/030H | 82896AEN   |
|                                                                                     |                                                                                     | 32            | A                     | 30mA                  | A6SED4C32/030H | 82888AEN       | A6SED4D32/030H | 82897AEN   |
|                                                                                     |                                                                                     | 40            | A                     | 30mA                  | A6SED4C40/030H | 82889AEN       | A6SED4D40/030H | 82898AEN   |
|                                                                                     |                                                                                     | 50            | A                     | 30mA                  | A6SED4C50/030H | 82890AEN       | A6SED4D50/030H | 82899AEN   |
|                                                                                     | 63                                                                                  | A             | 30mA                  | A6SED4C63/030H        | 82891AEN       | A6SED4D63/030H | 82900AEN       |            |
|                                                                                     |                                                                                     |               |                       |                       |                |                |                |            |
|                                                                                     |                                                                                     |               |                       |                       |                |                |                |            |
|                                                                                     |                                                                                     |               |                       |                       |                |                |                |            |

## ACCESSORIES

### ■ Accessories

#### Auxiliary contact

Provides the status of the protection device,

Rated voltage: 240-415V, AC; 24-250V, DC



#### Fault signal contact

In case of short circuit and overload tripping of the circuit breaker, the signal contact is switched, and mechanical indication is provided on the front panel, provide 1CO contact.

Rated voltage: 240-415V, AC; 24-250V, DC

| Rated voltage: V | DC24 | DC48 | DC110/220 | DC250 | AC240 | AC415 |
|------------------|------|------|-----------|-------|-------|-------|
| Rated current: A | 6    | 2    | 1         | 0.4   | 6     | 3     |

#### Shunt release

When the circuit breaker is in the "ON" position and the shunt trip coil is energized, the circuit breaker will trip and its main contact will open. This accessory can be used for remote control.

#### Standards

IEC 60947-5

#### Mounting:

- The auxiliary contact, signal contact and shunt release are installed on the left side of the circuit breaker. They adopt the snap-type portable design and can be simply and quickly clamped without complicated installation tools.
- Each circuit breaker can be installed with 3 accessories at most;
- When the shunt release and other accessories need to be installed, the shunt release card should be installed on the left side of the circuit breaker before installing other accessories.

## ACCESSORIES

## Ordering data of accessories

## Auxiliary contact



| Describe | Type code | Order code | Width |
|----------|-----------|------------|-------|
| 1CO      | H6        | 83501AEN   | 9mm   |

working principle:

When the circuit breaker is closed, 11-14 will be closed, and when it is opened, 11-12 will be closed

## Fault signal contact

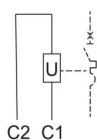


| Describe | Type code | Order code | Width |
|----------|-----------|------------|-------|
| 1CO      | S6        | 83502AEN   | 9mm   |

working principle:

91-92 is closed after the circuit breaker is closed, and the manual opening does not operate, and 91-92 is still closed; When the circuit breaker is in the closed state, after a fault (short circuit or overload) trip occurs, 91-94 will be closed, and a fault signal is sent

## Shunt release



| Describe | Type code | Order code | Width |
|----------|-----------|------------|-------|
| DC24V    | NFAD      | 83503AEN   | 18mm  |
| AC220V   | NFAN      | 83504AEN   | 18mm  |

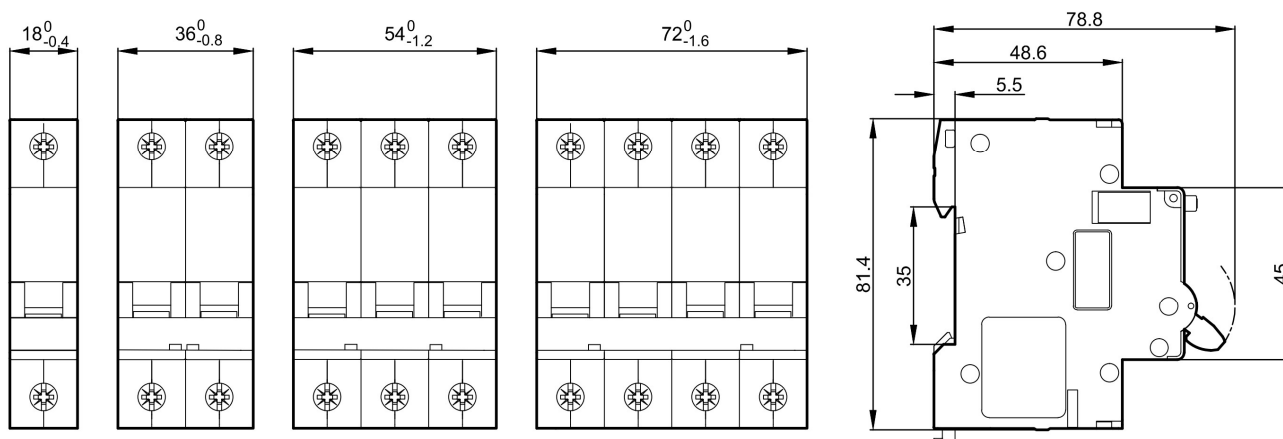
working principle:

When the circuit breaker is closed and the shunt coil is energized and activated, the release will drive the circuit breaker to open

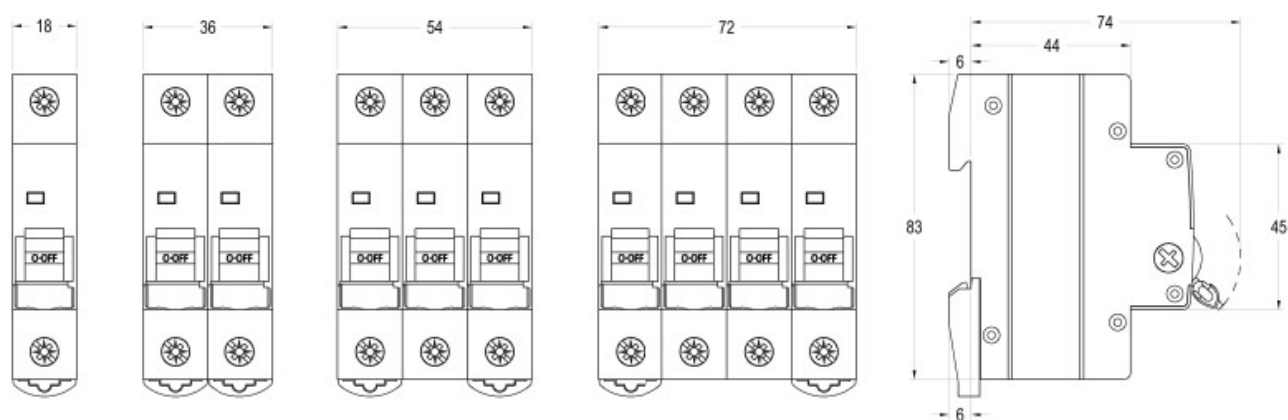


## DIMENSION

A6M(1P-4P), A6S (1P-4P) , A6S DC (1P, 2P) , A6L DC (1P, 2P)

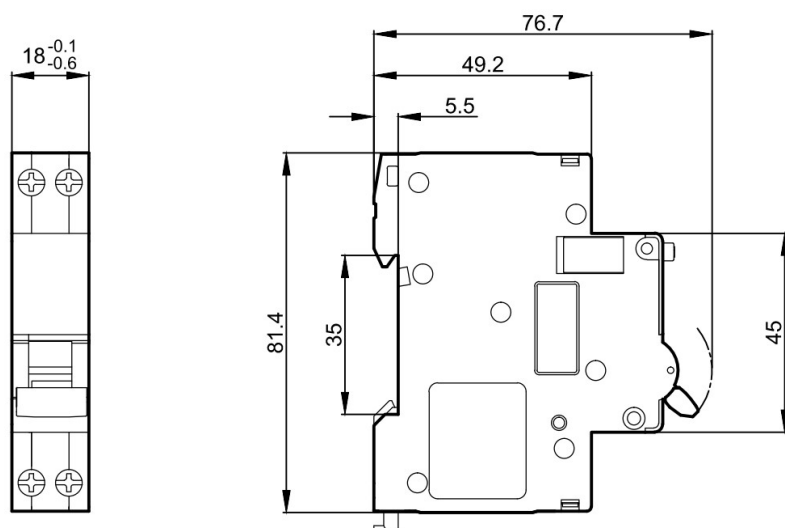


A6MT

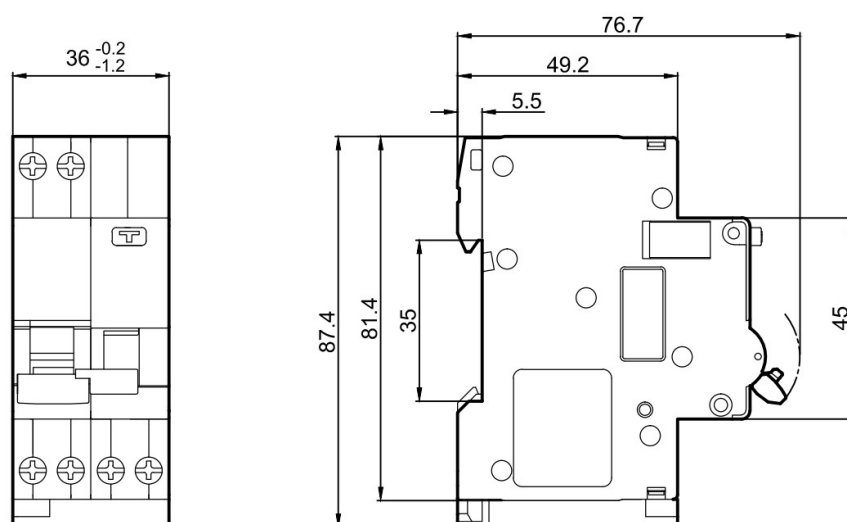


## DIMENSION

### A6M5

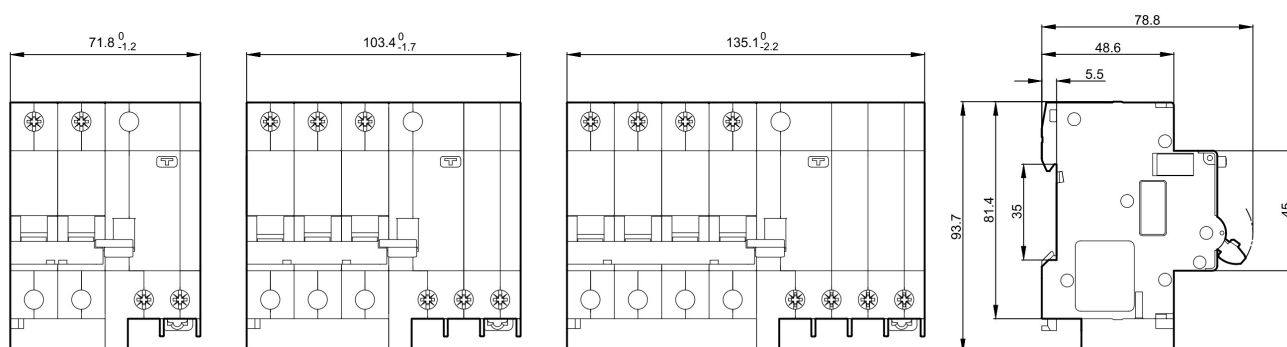


### A6MR



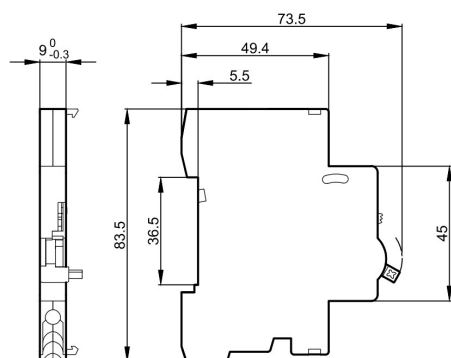
# DIMENSION

## A6MED, A6SED

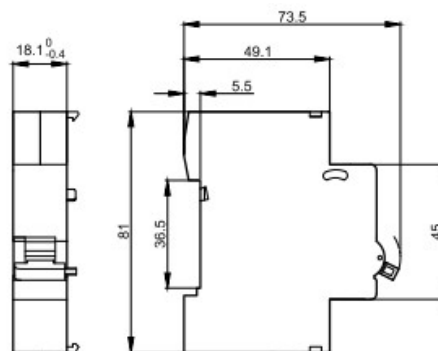


## H6, S6, NF

### H6, S6



### NF





# GEIS

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