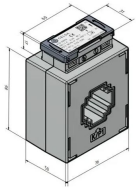
# ALO 50T3012

Article features

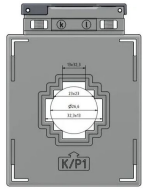
- This clip-on current transformer is mostly used for new installations, as the circuit must be interrupted here.
- Short-circuiting of the current transformer when the secondary terminal cover is open.
- More economical cable routing and lower power loss due to elimination of the transformer disconnect terminal.
- Easy handling facilitated by a rotatable and sealable secondary terminal cover.
- Suitable for both floor and side mounting.
- Most cost-effective and most common variant
- Simply plug the transformer onto the primary conductor (no need for complex wiring)
- Currently the most compact design on the market, thus wonderfully suitable for the control cabinet
- Other areas of application are machine and plant construction.

| Technical data | |
|---|---|
| **Round conductor** | Ø 27 mm |
| **Primary rail** | 30 x 10 mm |
| **Dimensions (W × H × D)** | 76 × 103 × 50 mm |
| **Design** | Plug-on current transformer |
| **Secondary connection** | Screw terminal |
| **Touch protection** | yes |
| **Rated current** | 50, 60, 75, 80, 100, 125, 150, 200, 250, 300, 400 A |
| **Instrument security factor** | FS 5 |

## Drawings and views



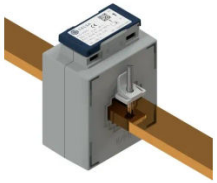
Dimensional drawing 1



Dimensional drawing 2

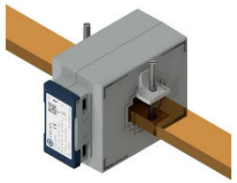
Rotary cover

With plug-in feet



With busbar

With plug-in feet, side view



With busbar, side view

CELSA Messgeräte GmbH
Rheinfeldstraße 69
67354 Römerberg · Germany

Tel. +49 6232 66291-0
Fax +49 6232 66291-33
info@celsa.group · www.celsa.group

## Types

| Output | Cl. | Rated current A | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 50 | 60 | 75 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 400 |
| 1 A | 0.5 | 1 VA 70142-0987-0100<br>1.5 VA 70142-0987-0150<br>2 VA 70142-0987-0200<br>2.5 VA 70142-0987-0250 | 1 VA 70142-0989-0100<br>1.5 VA 70142-0989-0150<br>2 VA 70142-0989-0200<br>2.5 VA 70142-0989-0250 | 1 VA 70142-0991-0100<br>1.5 VA 70142-0991-0150<br>2 VA 70142-0991-0200<br>2.5 VA 70142-0991-0250 | 1 VA 70142-0993-0100<br>1.5 VA 70142-0993-0150<br>2 VA 70142-0993-0200<br>2.5 VA 70142-0993-0250 | 1 VA 70142-0995-0100<br>1.5 VA 70142-0995-0150<br>2.5 VA 70142-0995-0250<br>5 VA 70142-0995-0500 | 1 VA 70142-0997-0100<br>1.5 VA 70142-0997-0150<br>2.5 VA 70142-0997-0250<br>5 VA 70142-0997-0500 | 1.5 VA 70142-0999-0150<br>2.5 VA 70142-0999-0250<br>5 VA 70142-0999-0500<br>10 VA 70142-0999-1000 | 2.5 VA 70142-1001-0250<br>5 VA 70142-1001-0500<br>10 VA 70142-1001-1000<br>15 VA 70142-1001-1500 | 2.5 VA 70142-1003-0250<br>5 VA 70142-1003-0500<br>10 VA 70142-1003-1000<br>15 VA 70142-1003-1500 | – | – |
| 5 A | 0.5 | 1 VA 70142-0988-0100 | 1 VA 70142-0990-0100<br>1.5 VA 70142-0990-0150<br>2 VA 70142-0990-0200<br>2.5 VA 70142-0990-0250 | 1 VA 70142-0992-0100<br>1.5 VA 70142-0992-0150<br>2 VA 70142-0992-0200<br>2.5 VA 70142-0992-0250 | 1 VA 70142-0994-0100<br>1.5 VA 70142-0994-0150<br>2 VA 70142-0994-0200<br>2.5 VA 70142-0994-0250 | 1 VA 70142-0996-0100<br>1.5 VA 70142-0996-0150<br>2.5 VA 70142-0996-0250<br>5 VA 70142-0996-0500 | 1 VA 70142-0998-0100<br>1.5 VA 70142-0998-0150<br>2.5 VA 70142-0998-0250<br>5 VA 70142-0998-0500 | 1.5 VA 70142-1000-0150<br>2.5 VA 70142-1000-0250<br>5 VA 70142-1000-0500<br>10 VA 70142-1000-1000 | 2.5 VA 70142-1002-0250<br>5 VA 70142-1002-0500<br>10 VA 70142-1002-1000<br>15 VA 70142-1002-1500 | 2.5 VA 70142-1004-0250<br>5 VA 70142-1004-0500<br>10 VA 70142-1004-1000<br>15 VA 70142-1004-1500 | 2.5 VA 70142-1005-0250<br>5 VA 70142-1005-0500<br>10 VA 70142-1005-1000<br>15 VA 70142-1005-1500 | 2.5 VA 70142-1006-0250<br>5 VA 70142-1006-0500<br>10 VA 70142-1006-1000<br>15 VA 70142-1006-1500 |
| 333 mV | 0.5 | 70142-0987-0333 | 70142-0989-0333 | 70142-0991-0333 | 70142-0993-0333 | 70142-0995-0333 | 70142-0997-0333 | 70142-0999-0333 | 70142-1001-0333 | 70142-1003-0333 | – | – |

## Conditions of use

| | |
|---|---|
| **Secondary current** | **5A / 1A / 333mV** |
| Nominal frequency | 50 - 60 Hz |
| max. permissible operating voltage | 720 V |
| Test voltage | 3 kV / 1 min |
| Thermal rated continuous current | Icth = 1,2 x Ipr |
| Thermal rated short-time withstand current | Ith = 60 x Ipr |
| Rated impulse current | Idyn = 2,5 x Ith |
| Overcurrent rating (FS) | n < 5 |
| Insulation class | E / F / H |
| Normative standards | IEC 61869 Teil 1 + 2 / DIN EN 42600 |
| Housing | Gehäuse aus selbstverlöschendem PA66 V0 nach UL 94 |

## Environmental conditions

| | |
|---|---|
| **Installation location** | **Indoor use** |
| Ambient temperature (operation) | -40°C ... +60°C |
| Ambient temperature (storage / transport) | -40°C ... +60°C |
| Altitude | up to 1000 m |

## Scope of delivery

- Primary conductor clip

## Accessories

- DIN rail adapter

| |
|---|
| • Grub screw M5 × 30 mm for primary busbar fastening |
| • Plug-in foot ALO/WALO |

Special designs on request:
• any primary and secondary rated currents
• operating voltage series 1 (1,2kV)
• Cast resin grouting