

**CMA-3151-100-AO-24DC-05****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Current transformer with analogue output**

The simple conversion of "large" currents (100 - 500 A AC) into an analogue value without intermediate steps. Suitable for downstream devices, e.g. limit value detection.

**General ordering data**

|              |  |
|--------------|--|
| Version      | Primary current: 100 A, Output : 0(4)-20 mA, 0(2)-10 V, Load: 1 VA |
| Order No.    | <a href="#">1531940000</a>   |
| Type         | CMA-3151-100-AO-24DC-05  |
| GTIN (EAN)   | 4050118337211  |
| Qty.         | 1 items  |
| Manufacturer | MBS AG   |

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## Technical data

### Approvals

|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

### Dimensions and weights

|            |          |                 |             |
|------------|----------|-----------------|-------------|
| Depth      | 71 mm    | Depth (inches)  | 2.7953 inch |
| Height     | 117.8 mm | Height (inches) | 4.6378 inch |
| Width      | 80 mm    | Width (inches)  | 3.1496 inch |
| Net weight | 250 g    |                 |             |

### Temperatures

|                     |                       |                |
|---------------------|-----------------------|----------------|
| Storage temperature | Operating temperature | -20 °C...60 °C |
|---------------------|-----------------------|----------------|

### Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

### Measuring voltage input

|                       |       |                       |       |
|-----------------------|-------|-----------------------|-------|
| Frequency range, max. | 60 Hz | Frequency range, min. | 40 Hz |
|-----------------------|-------|-----------------------|-------|

### Dimensions of live conductors

|                 |          |      |            |
|-----------------|----------|------|------------|
| Round conductor | 28.00 mm | Rail | 30 x 10 mm |
|-----------------|----------|------|------------|

### Electrical attributes

|                   |            |                     |         |
|-------------------|------------|---------------------|---------|
| Tolerance class   | 0,5        | Nominal turns ratio | 10 kA/V |
| Secondary current | 0...0.02 A | Load                | 1 VA    |
| Primary current   | 100 A      |                     |         |

### Technical properties

|   |                          |                   |       |
|---|--------------------------|-------------------|-------|
| Protection degree                                     | IP20                     | Insulation class  | E     |
| Thermal rated continuous current I <sub>thermal</sub> | 1.5 x I <sub>rated</sub> | Nominal frequency | 50 Hz |

### Output

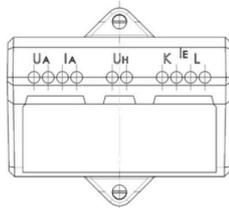
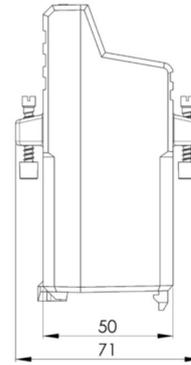
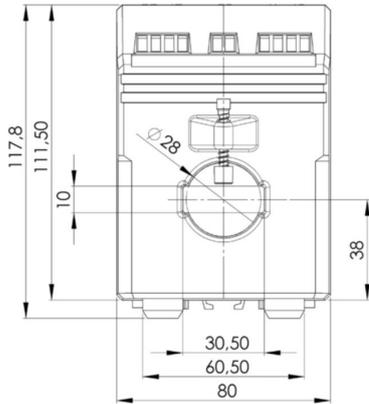
|                      |   |                |  |
|----------------------|---|----------------|--|
| Output voltage, note | 0...10 V, 2...10 V (with 24 V DC auxiliary voltage) | Output current | 0...20 mA, 4...20 mA (with 24V DC auxiliary voltage) |
|----------------------|---|----------------|--|

### Insulation coordination

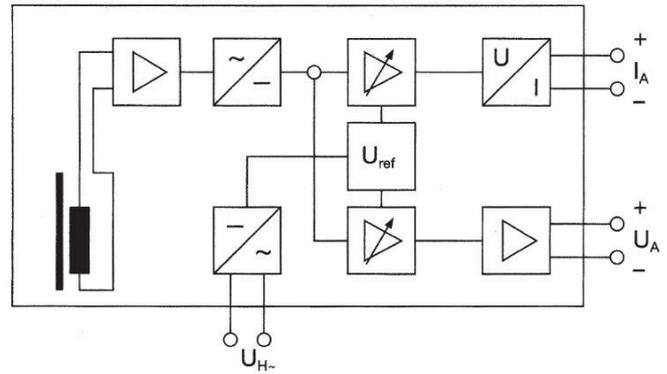
|                 |      |                    |                      |
|-----------------|------|--------------------|----------------------|
| Test voltage    | 4 kV | Galvanic isolation | between input/output |
| Tolerance class | 0,5  |                    |                      |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002048    | ETIM 9.0    | EC002048    |
| ETIM 10.0   | EC002048    | ECLASS 14.0 | 27-21-09-02 |
| ECLASS 15.0 | 27-21-09-02 |             |             |



Connection diagram



Connection diagram

