

Data Sheet for Article: MGC55025--

# Current transformer 250/5A 40x10, class 0.5

Input current 250A, Burden Class 0.5 (2.5VA)



## Technical Data

|                                    |                                                                                                                                                                                                                                                                                    |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP Rating                          | IP20                                                                                                                                                                                                                                                                               |
| Burden                             | Class 0.5 (2.5VA)                                                                                                                                                                                                                                                                  |
| Note                               | Due to dangerous overvoltage and overheating, the Current Transformer is not allowed to be operated with open secondary Side. (EN 60044-1 /A2) As soon as the Measurement Device, the Energy Counter or the Net Analyzer is disconnected, the secondary Side has to be shortcuted! |
| Intended use                       | for copper bars up to 40 x 10mm                                                                                                                                                                                                                                                    |
| Product standard                   | EN 61869-2                                                                                                                                                                                                                                                                         |
| Cut-out size (mm)                  | 40x10                                                                                                                                                                                                                                                                              |
| <b>Insulation requirements</b>     |                                                                                                                                                                                                                                                                                    |
| Max. Operating voltage Um          | 0.72kV r.m.s.                                                                                                                                                                                                                                                                      |
| Isolation test voltage             | 3 kV R.M.S. 50 Hz/ 1 min                                                                                                                                                                                                                                                           |
| Isolation                          | Class B (EN/IEC 61869-1, 61869-2)                                                                                                                                                                                                                                                  |
| <b>Specifications</b>              |                                                                                                                                                                                                                                                                                    |
| Rated current primary side Ipr (A) | 250                                                                                                                                                                                                                                                                                |
| Rated frequency (Hz)               | 50-60Hz                                                                                                                                                                                                                                                                            |
| Short-time current Ith             | < 60Ipr                                                                                                                                                                                                                                                                            |

## Technical Data - continued

### Thermal rated continuous current according to EN60044-1

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| Rated dynamic current $I_{dyn}$       | 2.5I <sub>th</sub>                |
| Rated current secondary side $I_{sr}$ | 5A                                |
| Tightening torque (Nm)                | 2                                 |
| Housing material                      | Polycarbonate, self-extinguishing |

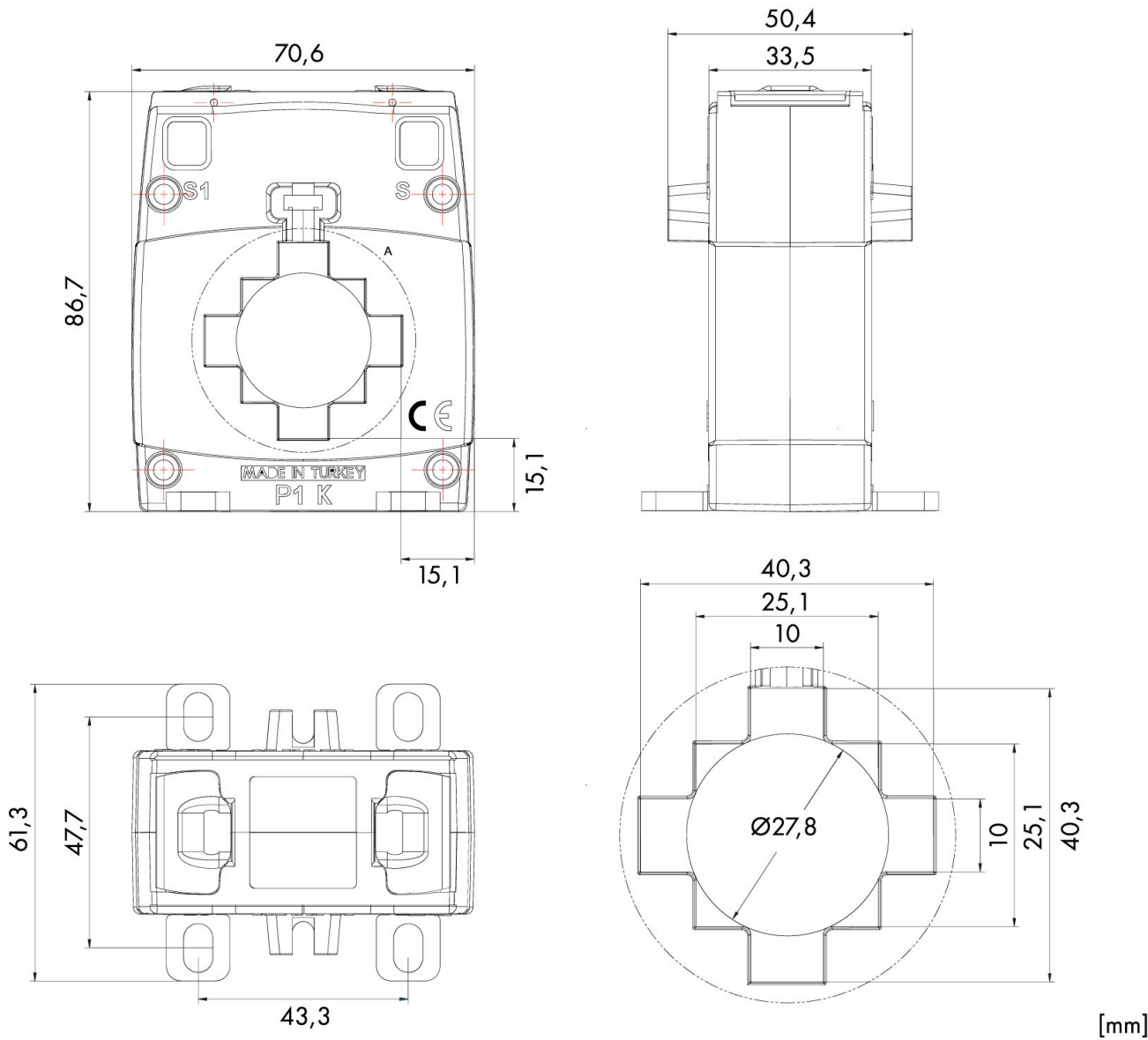
### Accuracy classes

|                            |                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference temperature (°C) | 23°C ±1°C                                                                                                                                                  |
| Load current error         | For class 0.5 and 5% $I_n$ : ±1.5%<br>For class 0.5 and 120% $I_n$ : ±0.5%<br>For class 0.5 and 100% $I_n$ : ±0.5%<br>For class 0.5 and 20% $I_n$ : ±0.75% |

### Working conditions

|                                            |            |
|--------------------------------------------|------------|
| Temperature range - Transport/storage (°C) | -25 to +60 |
| Temperature range - Operation (°C)         | -5 to +40  |
| Net length (mm)                            | 70,60      |
| Net width (mm)                             | 50,40      |
| Net height (mm)                            | 86,70      |
| Net weight (kg)                            | 0,21       |
| Min. ambient temperature (°C)              | -25        |
| Max. ambient temperature (°C)              | 60         |

**Maßbild MGC55025--**



| DESCRIPTION                                                                                 | Order No. |
|---------------------------------------------------------------------------------------------|-----------|
| Current transformer 250/5A 40x10, class 0.5<br>Input current 250A, Burden Class 0.5 (2.5VA) | MGC55025  |