

## TQ50 Split-core Current Transformer

The very compact ELEQ TQ50 split-core current transformer is especially designed for connection to digital measurement systems. Additionally, the 5VA line is also suitable for analogue measurement systems. The accuracy of these current transformers results in highly accurate current measurements. All TQ50 current transformers are capable of supplying the specified burden at the end of the secondary leads. The TQ50 is easy to install; the top part can be removed entirely. The TQ50 is supplied with color coded secondary leads and correct closing of the current transformer is guaranteed by a distinct sound of a "click". Two tie wraps are included for easy assembling the current transformer on the primary conductor.



### Technical Specifications

|   |  |
|---|--|
| <b>Environmental conditions</b>                                     |  |
| This product is designed to be safe under the following conditions: |  |
| Location:   | Indoor use   |
| Ambient temperature:  | -10°C .. +55°C   |
| Relative humidity:  | 5% .. 85%, non condensing  |
| Protection degree:  | IP20   |
| Only suitable for insulated conductor                               |  |
| <b>Application conditions</b>                                       |  |
| Standard:   | IEC61869-2   |
| Rated short-time thermal current (I <sub>th</sub> ):                | 60 x I <sub>n</sub> /1s  |
| Continuous thermal current (I <sub>cth</sub> ):                     | 100%   |
| Rated insulation level:   | 0,72/3I-kV   |
| Rated frequency:  | 50/60Hz  |
| Class of insulation:  | E (120°C)  |
| Primary window dimensions:  | TQ50-E max. Ø 42 mm<br>TQ50-L max. 2 x Ø 42 mm   |
| Secondary leads:  | .../1A: L=5m cable 0,5mm <sup>2</sup> flexible<br>.../5A: L=3m cable 1,5mm <sup>2</sup> flexible |

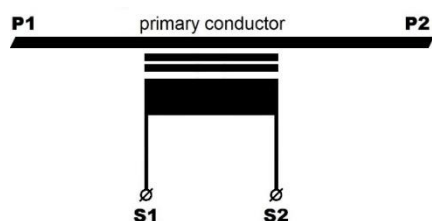
### Ordering Specifications

| Ratio                | Class | Burden <sup>1)</sup> | Article number TQ50-E | Article number TQ50-L |
|----------------------|-------|----------------------|-----------------------|-----------------------|
| 250/1A               | 1     | 0.5VA                | 4Q5R10                | 4Q5M10                |
| 300/1A               | 1     | 0.5VA                | 4Q5R11                | 4Q5M11                |
| 400/1A               | 0.5   | 0.5VA                | 4Q5R12                | 4Q5M12                |
| 500/1A               | 0.5   | 0.5VA                | 4Q5R13                | 4Q5M13                |
| 600/1A               | 0.5   | 0.5VA                | 4Q5R14                | 4Q5M14                |
| 750/1A               | 0.5   | 0.5VA                | 4Q5R15                | 4Q5M15                |
| 800/1A               | 0.5   | 0.5VA                | 4Q5R16                | 4Q5M16                |
| 1000/1A <sup>2</sup> | 0.5   | 0.5VA                | 4Q5R17                | 4Q5M17                |
|                      |       |                      |                       |                       |
| 400/1A               | 3     | 5VA                  | 4Q5S12                | 4Q5N12                |
| 600/1A               | 3     | 5VA                  | 4Q5S14                | 4Q5N14                |
| 800/1A               | 3     | 5VA                  | 4Q5S16                | 4Q5N16                |
| 1000/1A              | 3     | 5VA                  | 4Q5S17                | 4Q5N17                |
|                      |       |                      |                       |                       |
| 300/5A               | 1     | 0.5VA                | 4Q5E61                | 4Q5L61                |
| 400/5A               | 1     | 0.5VA                | 4Q5E62                | 4Q5L62                |
| 500/5A               | 1     | 0.5VA                | 4Q5E63                | 4Q5L63                |
| 600/5A               | 0.5   | 0.5VA                | 4Q5E64                | 4Q5L64                |
| 750/5A               | 0.5   | 0.5VA                | 4Q5E65                | 4Q5L65                |
| 800/5A               | 0.5   | 0.5VA                | 4Q5E66                | 4Q5L66                |
| 1000/5A <sup>2</sup> | 0.5   | 0.5VA                | 4Q5E67                | 4Q5L67                |
|                      |       |                      |                       |                       |
| 400/5A               | 3     | 5VA                  | 4Q5S62                | 4Q5N62                |
| 800/5A               | 3     | 5VA                  | 4Q5S66                | 4Q5N66                |

<sup>1)</sup> Burden specified at the end of the secondary leads

<sup>2)</sup> Ambient temperature -10°C .. +40°C

### Wiring Diagram



### Dimensions

