

# MC1-30-250/400/500 A

MC1-30-250/400/500 A, Current transformer

Code: M73114.

> Inner diameter (mm): 30
> System: Single-phase
> Class 0,5 Power (VA): 0,25
> Measurement Range (A): 250/400/500
> Max. Current (A): 500
> Input current: 250/400/500 A
> Transformer type: Closed core

## Description

The transformers of the MC1 range are efficient current transformers. This range of transformers offers a measurement range from 150...2,000 A. They operate with a 250 mA secondary and feature 3 measurement ranges in the same transformer: simply changing a connection cable and the ratio selected in the measurement unit. MC1 transformers are only compatible with CIRCUTOR's MC range.

## Application

- In installations where the electric supply can be interrupted to install transformers.
- Very useful for installing in places where the exact nominal current range is not known.



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# MC1-30-250/400/500 A

Current transformers, MC1 single-phase

Code: M73114.

## Specifications

### Electrical characteristics

| | |
|---|---|
| Safety factor (SF) | FS 5 |
| Power | 0.25 VA (Class 0,5) |
| Insulation voltage between terminals S1-S2 | 3 kV |

### Mechanical characteristics

| | |
|---|---|
| Size (mm) width x height x depth | 32 x 59 x 59 (mm) |
| Envelope | Plastic V0 self-extinguishing |
| Fastening | DIN rail with accessory |
| Weight (kg) | 0,105 |

### Environmental characteristics

| | |
|---|---|
| Thermal Class | Class B (+130 °C) |
| Protection class | IP 20 |

### Specific technical characteristics of current sensors

| | |
|---|---|
| Inner diameter Ø (mm) | 30 |
| Operating voltage | 0,72 kV~ máx. |

### Current measurement circuit

| | |
|---|---|
| Nominal frequency | 50 / 60 Hz |
| Primary current measurement | 250/400/500 |
| Dynamic current (Idyn) | 2,5 Ith |
| Thermal short-circuit current (Ith) | 60 In |
| Transformation ratio | .../ 250 mA |

### Standards

| | |
|---|---|
| Standards | IEC 60044-1 |

### Measurement accuracy

| | |
|---|---|
| Accuracy | Clase 0,5 |

MC1
Triple scale single-phase efficient transformers

| CODE | TYPE | Measurement Range (A) | Inner diameter (mm) | Class 0,5 Power (VA) |
|---|---|---|---|---|
| M73112. | MC1-15-75 | 75 | 15 | 0,25 |



# MC1-30-250/400/500 A

Current transformers, MC1 single-phase

Code: M73114.

| CODE | TYPE | Measurement Range (A) | Inner diameter (mm) | Class 0,5 Power (VA) |
|---|---|---|---|---|
| M73118. | MC1-20-50/100/150 A | 50/100/150 | 20 | 0,25 |
| M73116. | MC1-35-50/100/150 A | 50/100/150 | 35 | 0,25 |
| M73113. | MC1-20-150/200/250 A | 150/200/250 | 20 | 0,25 |
| M73114. | MC1-30-250/400/500 A | 250/400/500 | 30 | 0,25 |
| M73115. | MC1-55-500/1000/1500 A | 500/1000/1500 | 55 | 0,25 |
| M73117. | MC1-80 1000/1500/2000 A | 1000/1500/2000 | 80 | 0,25 |

The MC/SC3 transformers with a 250 mA output are only compatible with network analysers type MC



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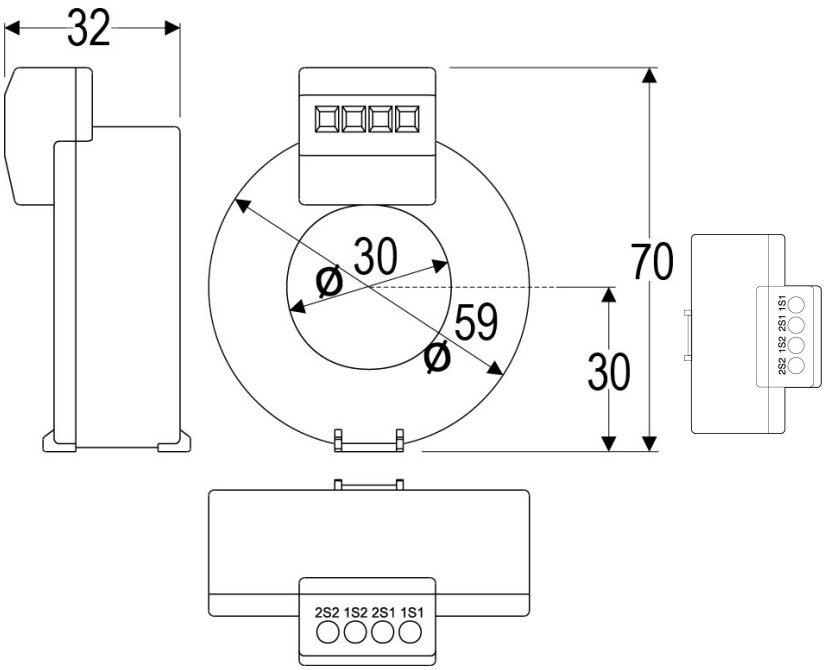
## Dimensions




## Connections



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