



## MC1-20-50/100/150 A

MC1-20-50/100/150 A, Current transformer

Code: M73118.

- > Inner diameter (mm): 20
- > System: Single-phase
- > Class 0,5 Power (VA): 0,25
- > Measurement Range (A): 50/100/150
- > Max. Current (A): 150
- > Input current: 50/100/150 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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### Specifications

#### Electrical characteristics

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

#### Environmental characteristics

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

#### Mechanical characteristics

|             |                               |
|-------------|-------------------------------|
| Envelope    | Plastic V0 self-extinguishing |
| Fastening   | DIN rail with accessory       |
| Weight (kg) | 0,07                          |

#### Specific technical characteristics of current sensors

|                       |               |
|-----------------------|---------------|
| Inner diameter Ø (mm) | 20            |
| Operating voltage     | 0,72 kV~ máx. |

#### Current measurement circuit

|                                     |             |
|-------------------------------------|-------------|
| Nominal frequency                   | 50 / 60 Hz  |
| Primary current measurement         | 50/100/150  |
| 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                 |
| M73118. | MC1-20-50/100/150 A | 50/100/150            | 20                  | 0,25                 |



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| CODE    | TYPE                    | Measurement Range (A) | Inner diameter (mm) | Class 0,5 Power (VA) |
|---------|-------------------------|-----------------------|---------------------|----------------------|
| 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

