

# TRM180 4000/5A

TRM180 4000/5A, Measuring transformers encapsulated in resin

Code: P50166.

> Inner diameter (mm): 180
> System: Single-phase
> Class 0,5 Power (VA): 20
> Measurement Range (A): 4000/5
> Input current: 4000 A
> Transformer type: Encapsulated in resin

## Description

Resin-coated current transformer, busbar. Other characteristics:

- From 75 to 5000 A
- Inner diameter from 30 to 180 mm, according to type
- Secondary .../5 A ( .../1 A on request)

## Application

These transformers have been conceived to convert nominal currents in any installation to current values adjusted to measurement devices. Its synthetic resin increases its resistance to adverse environmental conditions.



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## Specifications

### Electrical characteristics

| | |
|---|---|
| Power | 20 VA (Class 0,5) |
| Insulation voltage between terminals S1-S2 | 3 kV |

### Mechanical characteristics

| | |
|---|---|
| Size (mm) width x height x depth | 223 x 306 x 40 (mm) |
| Envelope | Self-extinguishing V0, synthetic resin |
| Weight (kg) | 3 |

### Environmental characteristics

| | |
|---|---|
| Thermal Class | Class B (+130 °C) |

### Specific technical characteristics of current sensors

| | |
|---|---|
| Inner diameter Ø (mm) | 180 |
| Operating voltage | 0,72 kV~ max. |

### Current measurement circuit

| | |
|---|---|
| Nominal frequency | 50 / 60 Hz |
| Primary current measurement | 4000 A |
| Dynamic current (Idyn) | 2,5 Ith |
| Thermal short-circuit current (Ith) | 60 In |
| Transformation ratio | ... / 5 A |

### Standards

| | |
|---|---|
| Standards | IEC 60044-1 / UNE EN 60044-1 |

**TRM**
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| CODE | TYPE | Measurement Range (A) | Inner diameter (mm) | Class 0,5 Power (VA) | Class 1 Power (VA) |
|---|---|---|---|---|---|
| **TRM30** | | | | | |
| P50101. | TRM30 75/5A | 75/5 | 30 | - | 2 |
| P50102. | TRM30 100/5A | 100/5 | 30 | - | 5 |
| P50103. | TRM30 150/5A | 150/5 | 30 | - | 5 |
| P50104. | TRM30 200/5A | 200/5 | 30 | 10 | - |
| P50105. | TRM30 250/5A | 250/5 | 30 | 15 | - |
| P50106. | TRM30 300/5A | 300/5 | 30 | 20 | - |



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|---|---|---|---|---|---|
| P50107. | TRM30 400/5A | 400/5 | 30 | 25 | - |
| **TRM40** | | | | | |
| P50111. | TRM40 150/5A | 150/5 | 40 | 5 | - |
| P50112. | TRM40 200/5A | 200/5 | 40 | 7,5 | - |
| P50113. | TRM40 250/5A | 250/5 | 40 | 10 | - |
| P50114. | TRM40 300/5A | 300/5 | 40 | 15 | - |
| P50115. | TRM40 400/5A | 400/5 | 40 | 20 | - |
| P50116. | TRM40 500/5A | 500/5 | 40 | 25 | - |
| P50117. | TRM40 600/5A | 600/5 | 40 | 30 | - |
| P50118. | TRM40 800/5A | 800/5 | 40 | 35 | - |
| **TRM60** | | | | | |
| P50121. | TRM60 250/5A | 250/5 | 60 | 5 | - |
| P50122. | TRM60 300/5A | 300/5 | 60 | 7,5 | - |
| P50123. | TRM60 400/5A | 400/5 | 60 | 10 | - |
| P50124. | TRM60 500/5A | 500/5 | 60 | 15 | - |
| P50125. | TRM60 600/5A | 600/5 | 60 | 20 | - |
| P50126. | TRM60 800/5A | 800/5 | 60 | 25 | - |
| P50127. | TRM60 1000/5A | 1000/5 | 60 | 30 | - |
| P50128. | TRM60 1200/5A | 1200/5 | 60 | 35 | - |
| **TRM80** | | | | | |
| P50131. | TRM80 500/5A | 500/5 | 80 | 5 | - |
| P50132. | TRM80 600/5A | 600/5 | 80 | 7,5 | - |
| P50133. | TRM80 750/5A | 750/5 | 80 | 10 | - |
| P50134. | TRM80 1000/5A | 1000/5 | 80 | 15 | - |
| P50135. | TRM80 1500/5A | 1500/5 | 80 | 20 | - |
| P50136. | TRM80 2000/5A | 2000/5 | 80 | 25 | - |
| P50137. | TRM80 2500/5A | 2500/5 | 80 | 30 | - |
| **TRM100** | | | | | |
| P50141. | TRM100 750/5A | 750/5 | 100 | 15 | - |
| P50142. | TRM100 1000/5A | 1000/5 | 100 | 20 | - |
| P50144. | TRM100 1500/5A | 1500/5 | 100 | 20 | - |
| P50145. | TRM100 2000/5A | 2000/5 | 100 | 20 | - |
| P50146. | TRM100 2500/5A | 2500/5 | 100 | 20 | - |
| P50147. | TRM100 3000/5A | 3000/5 | 100 | 25 | - |
| **TRM140** | | | | | |
| P50151. | TRM140 1000/5A | 1000/5 | 140 | 15 | - |
| P50152. | TRM140 1250/5A | 1250/5 | 140 | 20 | - |
| P50153. | TRM140 1500/5A | 1500/5 | 140 | 25 | - |



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|---|---|---|---|---|---|
| P50154. | TRM140 2000/5A | 2000/5 | 140 | 30 | - |
| P50155. | TRM140 2500/5A | 2500/5 | 140 | 35 | - |
| P50156. | TRM140 3000/5A | 3000/5 | 140 | 35 | - |
| P50157. | TRM140 4000/5A | 4000/5 | 140 | 35 | - |
| **TRM180** | | | | | |
| P50161. | TRM180 1250/5A | 1250/5 | 180 | 15 | - |
| P50162. | TRM180 1500/5A | 1500/5 | 180 | 20 | - |
| P50163. | TRM180 2000/5A | 2000/5 | 180 | 20 | - |
| P50164. | TRM180 2500/5A | 2500/5 | 180 | 20 | - |
| P50165. | TRM180 3000/5A | 3000/5 | 180 | 20 | - |
| P50166. | TRM180 4000/5A | 4000/5 | 180 | 20 | - |
| P50167. | TRM180 5000/5A | 5000/5 | 180 | 20 | - |

For other configurations see table of additional features



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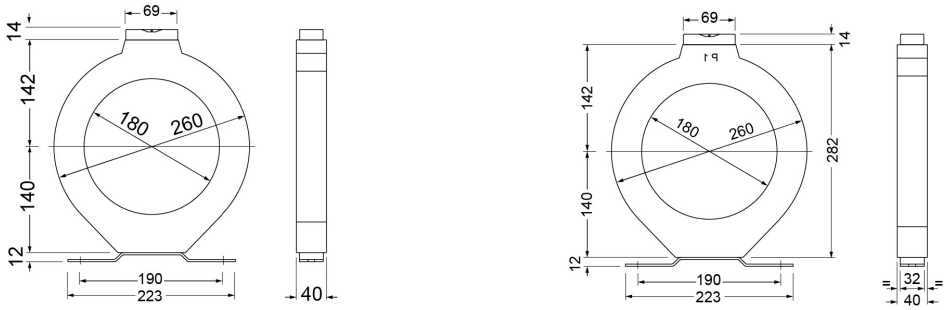


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## Dimensions




TRM 180



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