



## LOW VOLTAGE CURRENT TRANSFORMERS



Rymel designs and manufactures low voltage current transformers (CTs) for measurement and protection applications. These devices reduce primary current levels to standardized secondary values, typically 5 A, allowing safe and accurate monitoring by measuring instruments and protective relays.

Rymel low voltage CTs are characterized by high accuracy, low phase displacement, and reliable performance under normal and overload operating conditions.

### Applicable Standards

NTC 5933  
NTC 2205  
IEC 61869  
IEEE C57.13

### Routine Tests

- Power-frequency dielectric withstand test on primary terminals
- Power-frequency dielectric withstand test on secondary terminals
- Accuracy verification
- Overvoltage test between windings
- Nameplate and marking verification

### Product Scope

#### Measurement CTs

Designed for connection to measuring instruments. These CTs saturate at moderate overcurrent levels, protecting meters against short-circuit currents.

#### Protection CTs

Designed to supply protective relays. These CTs maintain accuracy and proportionality under overload conditions, ensuring fast and reliable relay operation.



## TECHNICAL SPECIFICATIONS

### LOW VOLTAGE BUSBAR CURRENT TRANSFORMERS

<b>USE:</b> Indoor
<b>MAXIMUM OPERATING VOLTAGE:</b> 0.72 kV
<b>APPLICATION:</b> Measurement or Protection
<b>RATED FREQUENCY:</b> 50 or 60 Hz
<b>INSULATION LEVEL:</b> 3 kV
<b>INSULATION THERMAL CLASS:</b> E



RATIO	ACCURACY CLASS	BURDEN (VA)
50:5	0.5, 0.5S and 1.	2.5
100:5		2.5 and 5
150:5	0.2, 0.2S, 0.5, 0.5S,1, 5P,10P.	2.5, 5, 10
200:5		
300:5		
400:5		
500:5		
600:5		

### LOW VOLTAGE SUBMERSIBLE CURRENT TRANSFORMERS

<b>USE:</b> Indoor (submerged)
<b>MAXIMUM OPERATING VOLTAGE:</b> 0.72 kV
<b>APPLICATION:</b> Measurement or Protection
<b>RATED FREQUENCY:</b> 50 or 60 Hz
<b>INSULATION LEVEL:</b> 3 kV



RATIO	ACCURACY CLASS	BURDEN (VA)
From 50:5 up to 4.000:5	0.5,0.5S,1, 5P,10P	2.5 to 20

### FOR MEASUREMENT AND PROTECTION

<b>USE:</b> Indoor or outdoor
<b>MAXIMUM OPERATING VOLTAGE:</b> 0.72 kV
<b>APPLICATION:</b> Measurement or Protection
<b>RATED FREQUENCY:</b> 50 or 60 Hz
<b>INSULATION LEVEL:</b> 3 kV
<b>INSULATION THERMAL CLASS:</b> E



RATIO	ACCURACY CLASS	BURDEN (VA)
From 1500:5 Up to 4000:5	0.5,0.5S,1, 5P,10P	2.5 to 20

### WINDOW-TYPE LOW VOLTAGE CURRENT TRANSFORMERS

<b>USE:</b> Indoor or outdoor
<b>MAXIMUM OPERATING VOLTAGE:</b> 0.72 kV
<b>APPLICATION:</b> Measurement or Protection
<b>RATED FREQUENCY:</b> 50 or 60 Hz
<b>INSULATION LEVEL:</b> 3 kV
<b>INSULATION THERMAL CLASS:</b> E



RATIO	ACCURACY CLASS	BURDEN (VA)	WINDOW DIAMETER (MM)
50:5	0.5, 0.5S and 1.	2.5	32
100:5		2.5 and 5	32
150:5	0.2, 0.2S, 0.5, 0.5S,1, 5P,10P.	2.5, 5, 10	32
200:5			40
300:5			55
400:5			55
500:5			55
600:5			67
800:5			73
1000:5			94
1500:5			94
2000:5			94
2500:5	94		
3000:5	94		
4000:5	94		

\* Consult with your trusted advisor if special technical specifications are required.

#### GENERAL FEATURES:

- Transformer fixing bracket
- Encapsulated nameplate with transparent resin
- Polarity marking on housing
- Designed according to customer-specific requirements

For both indoor and outdoor use, you can select one of the following terminal options:

**Terminal block:** Suitable for connection with copper or aluminum wires and transparent plastic cover with sealable screw for terminal protection.

**Cables:** Insulated copper with UV protection type THHN.