



TIM transducer is normally used in all DC Traction Power Supply systems like tramways, trolley bus, Metro and Railways for current and voltage measurements.

Three versions are available:

TIM750 - for 750Vdc systems

TIM1500 - for 1500Vdc systems

TIM3000 - for 3000Vdc systems

Current input from shunt can be 60mV, 80mV or 100mV, factory selectable.

Voltage input by direct insertion can be at 750Vdc, 1500Vdc or 3000Vdc depending on the model.

Voltage and shunt connection is made by M5 screws for 5mm ring connectors.

Auxiliary power supply connection is made by two poles 4mm 2 screw terminals.

One Fibre Optic ST connector is available for connection to relays or measurements devices by means of multimode fibre optic cable. As option a Temperature Input from PT100 probe is also available. Insulation level up to 18,5kV guarantees the highest safety level for Traction systems.

TIM is in compliance with the most severe International Standards and it has been fully tested by independent laboratories for EMC compatibility.

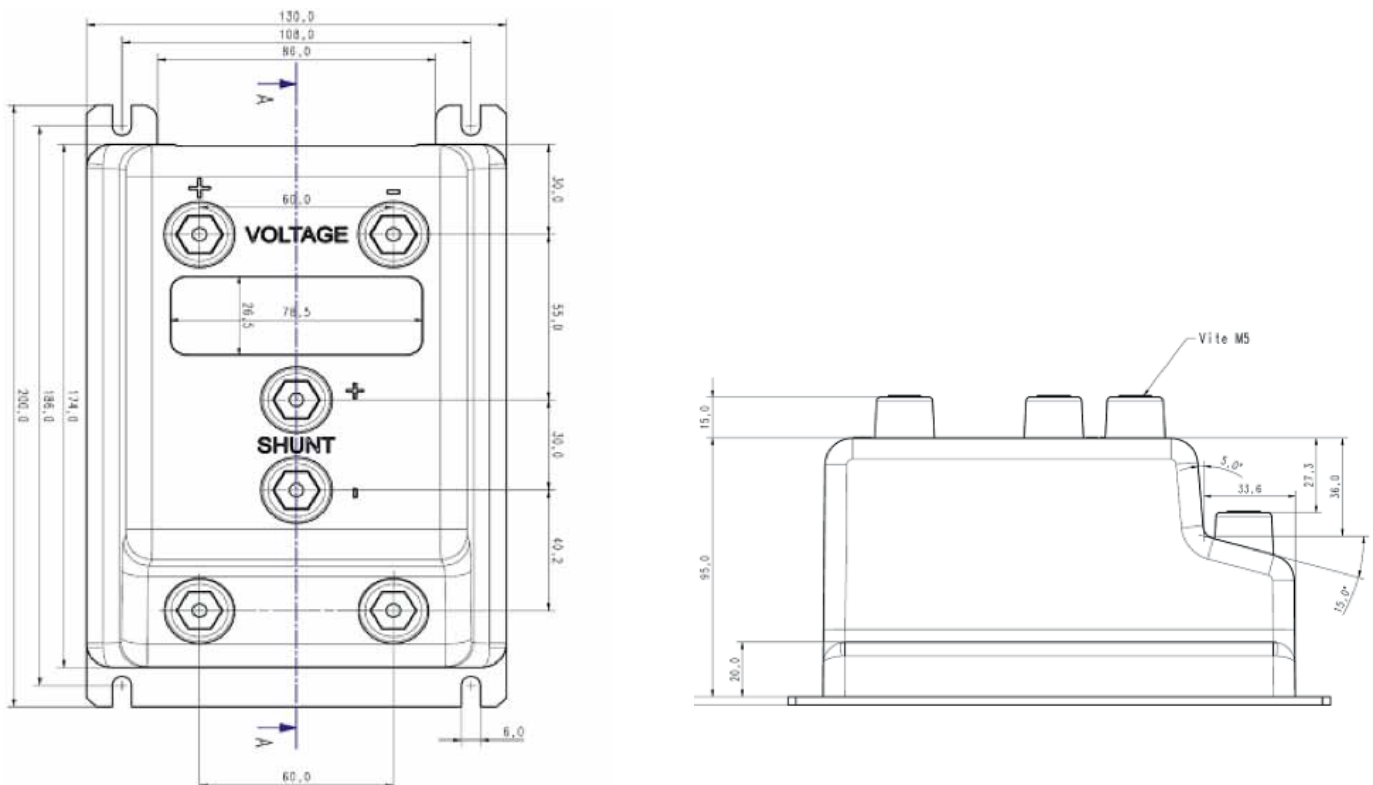
Reference Standards

- CE Directives
 - EN60255-5
 - EN60068-2
 - EN61000-6-2
 - EN61000-6-4
 - EN50124
 - EN50121-5
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ELECTRICAL CHARACTERISTICS

Power Supply	<ul style="list-style-type: none"> 110Vdc \pm 15%
Voltage Input	<ul style="list-style-type: none"> Direct: 750Vdc for TIM750 1500Vdc for TIM1500 3000Vdc for TIM3000
Voltage Measuring Dynamic	<ul style="list-style-type: none"> 2Vn
Current Input	<ul style="list-style-type: none"> 60mV, 80mV or 100mV from Shunt
Current Measuring Dynamic	<ul style="list-style-type: none"> 2In or 10In
Measurement Accuracy	<ul style="list-style-type: none"> 0,5%
Time Rate	<ul style="list-style-type: none"> 1ms
Conversion rate	<ul style="list-style-type: none"> 16bit
Output	<ul style="list-style-type: none"> Multimode fibre optic ST connector
Voltage and Current Connection	<ul style="list-style-type: none"> M5 screw for 5mm ring
Power Supply Connection	<ul style="list-style-type: none"> Two poles 4mm² screw terminal
Option	<ul style="list-style-type: none"> Temperature input from PT100 probe

OVERALL DIMENSIONS



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The performances and the characteristics reported in this manual are not binding and can be modified at any moment without notice.