TRANSFORMERS TRM-8, -12, -24, -358

INSTRUCTION MANUAL

Zakład Mechaniki i Elektroniki
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DESCRIPTION

Transformers are used to supply electronic systems where it is required to lower voltage value to the appropriate level. The universal casing enables mounting on the TH-35 DIN rail or on the surface. Available versions of secondary voltage: 8 V AC, 12 V AC, 24 V AC and 3 V AC, 5 V AC, 8 V AC.

FEATURES

- Electronic systems supply
- used as bells and doorchimes transformers,
- short circuits and overloads resistant,
- inner thermal protection,
- threemodular casing,
- TH-35 DIN rail or surface mounting.

CAUTION

The device is designed for single-phase installation and must be installed in accordance with standards valid in a particular country. The device should be connected according to the details included in this operating manual. Installation, connection and control should be carried out by a qualified electrician staff, who act in accordance with the service manual and the device functions. Disassembling of the device is equal with a loss of guarantee and can cause electric shock. Before installation make sure the connection cables are not under voltage. The cruciform head screwdriver 3,5 mm should be used to instal the device. Improper transport, storage, and use of the device influence its wrong functioning.
It is not advisable to instal the device in the following cases: if any device part is missing or the device is damaged or deformed. In case of improper functioning of the device contact the producer.

The symbol means selective collecting of electrical and electronical equipment. It is forbidden to put the used equipment together with other waste

TECHNICAL DATA

Parameters for all transformers TRM-XXX

Rated primary voltage:	230 V AC
Rated frequency:	50 / 60 Hz
Rated power:	15 VA
Rated surrounding temperature:	+40 °C
Average increase coil temperature admissible:	80 °C
Number of terminal clamps:	4 (6 for TRM-358)
Protective class:	II
Thermal insulation class:	B (120 °C)
Operating mode:	continuous
Section of connecting cables:	0,2 ÷ 2,50 mm^2
Operating position:	free
Mounting:	TH35 rail (PN-EN 60715) or surface
Protection degree:	IP20 (PN-EN 60529)
Overvoltage category:	II
Pollution degree:	P2
Rated impulse withstand voltage:	2,1 kV
Dimensions (height / width / depth):	threemodular (53 mm) 90x53x66 mm
Weight:	0,474 kg
Reference standards:	PN-EN 61558-1, PN-EN 61558-2-6

TRM-8

No-load state current:	maks. 32 mA AC (U=230 V AC, f=50 Hz)
No-load state secondary voltage:	9,6 V AC
No-load state secondary voltage tolerance:	±5 %
Rated secondary current:	1,88 A AC
Rated secondary voltage:	8 V AC
Rated secondary voltage tolerance:	±5 %

TRM-12

No-load state current:	maks. 32 mA AC (U=230 V AC, f=50 Hz)
No-load state secondary voltage:	14,4 V AC
No-load state secondary voltage tolerance:	±5 %
Rated secondary current:	1,25 A AC
Rated secondary voltage:	12 V AC
Rated secondary voltage tolerance:	±5 %

TRM-24

No-load state current:	maks. 32 mA AC (U=230 V AC, f=50 Hz)
No-load state secondary voltage:	28,7 V AC
No-load state secondary voltage tolerance:	±5 %
Rated secondary current:	0,625 A AC
Rated secondary voltage:	24 V AC
Rated secondary voltage tolerance:	±5 %

TRM-358

No-load state current:	maks. 36 mA AC (U=230 V AC, f=50 Hz)
No-load state secondary voltage:	3,9 V AC or 6,3 V AC or 9,8 V AC
No-load state secondary voltage tolerance:	±5 %
Rated secondary current:	5 A AC or 3 A AC or 1.88 A AC
Rated secondary voltage:	3 V AC or 5 V AC or 8 V AC
Rated secondary voltage tolerance:	±10 %

NOTE: Minimum distance to the other devices - 10 mm

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MOUNTING

1. Disconnect the power supply from the mains by the phase fuse, the circuit-breaker or the switch-disconnector that are joined to the proper circuit,
2. **Check if there is no voltage on connection cables by means of a special measure equipment,**
3. nstall **TRM-XXX** devices in the switchboard on TH 35 DIN rail or on the surface,
4. Connect the cables with the terminals,
5. Switch on the power supply from the mains,
6. While surface mounting screw protection shield,
7. Switch on the voltage.

LEGENDA

Safety transformer resistant to short-circuit (directly and indirectly).

Bell and doorchimes transformer resistant to short circuits (conditionally and non-conditionally).

PTC — Inner thermal transformer protection against overload and short circuits.

Construction made acc. to protection level II.

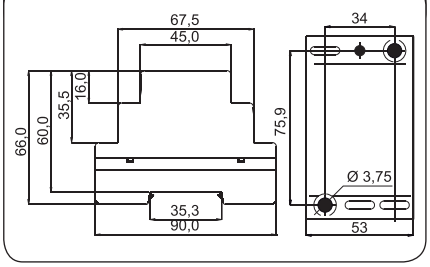
PRODUCT FAMILY

TRM-XXX

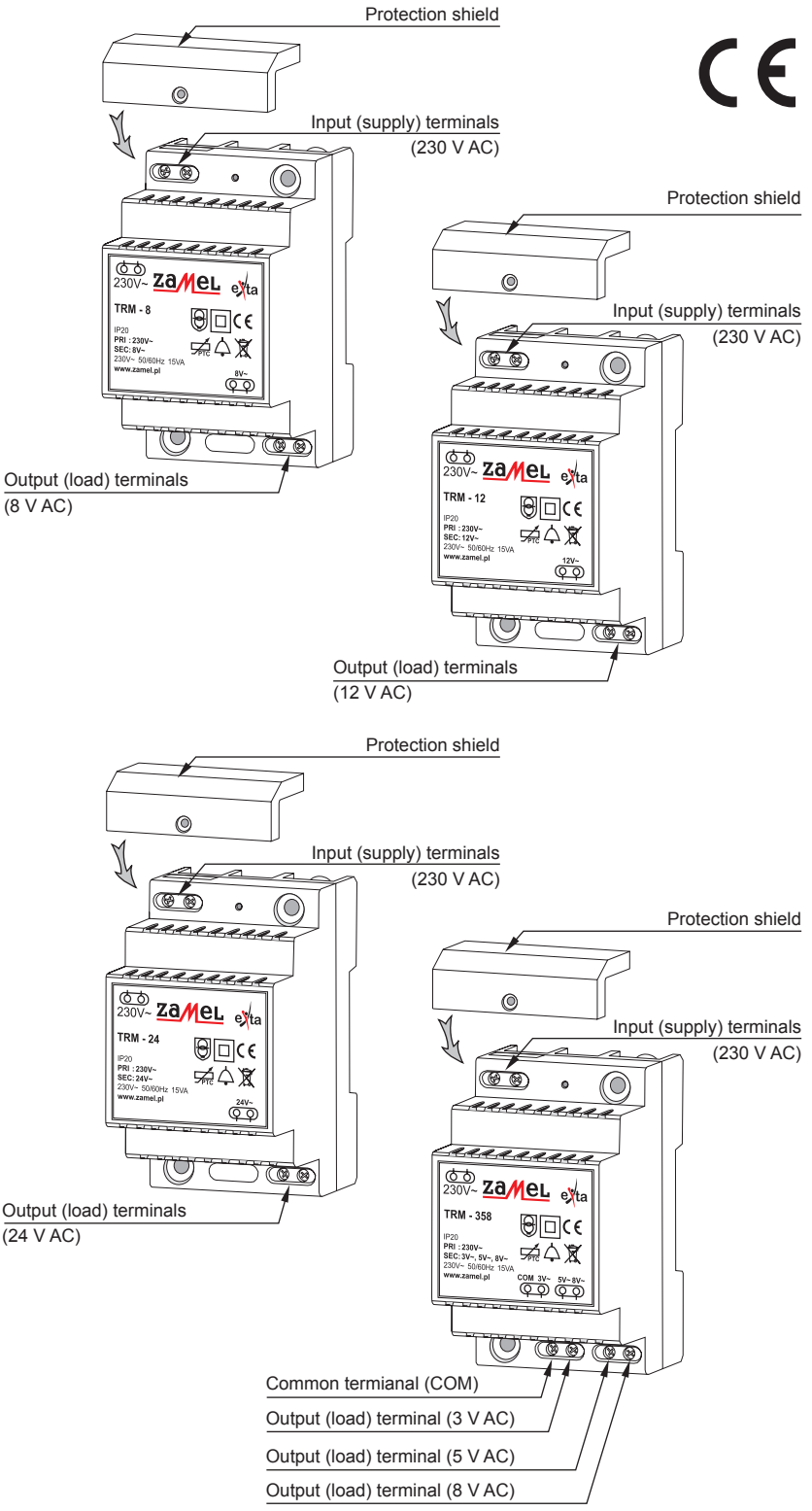
Device version:
- 8 - power 15 VA, voltage: 8 V AC
- 12 - power 15 VA, voltage: 12 V AC
- 24 - power 15 VA, voltage: 24 V AC
- 358 - power 15 VA, voltage: 3 V AC, 5 V AC, 8 V AC

Symbol

DIMENSIONS



APPEARANCE



WARRANTY CARD

There is 24 months guarantee on the product

Salesman stamp and signature, date of sale

1. ZMIE ZAMEL SP. J. assures 24 months guarantee for the product.
2. The manufacturer's guarantee does not cover any of the following actions:
   a) mechanical damage during transport, loading / unloading or under other circumstances,
   b) damage caused by incorrect product mounting or misuse,
   c) damage caused by unauthorised modifications made by the PURCHASER or any third parties to the product or any other devices needed for the product functioning,
   d) damage caused by Act of God or any other incidents independent of the manufacturer.
3. The PURCHASER shall lay any claims in writing to the dealer or ZMIE ZAMEL SP. J.
4. ZMIE ZAMEL SP. J. is liable for processing any claim according to current Polish legislation.
5. ZMIE ZAMEL SP. J. shall process the claim at its own discretion: product repair, replacement or money return.
6. The manufacturer's guarantee is valid in the Republic of Poland.
7. The PURCHASER's statutory rights in any applicable legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty.

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