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VEMER VN320800

VEMER VN320800 TMC 40/24 DIN Rail Transformer User Manual

Model: VN320800 TMC 40/24

Brand: VEMER

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the VEMER VN320800 TMC 40/24 DIN Rail Transformer. This transformer is designed for continuous service, converting a primary voltage of 230 V AC to a secondary voltage of 12-24 V AC with a power output of 40 VA. It is suitable for powering low-voltage devices and is intended for mounting on a DIN rail. Please read this manual thoroughly before installation and use, and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel.

- Always disconnect power before installing, servicing, or removing the transformer.
- Ensure all wiring complies with local and national electrical codes.
- Do not exceed the specified primary and secondary voltage ratings or the maximum power output of 40 VA.
- Protect the transformer from moisture, dust, and extreme temperatures.
- Verify correct voltage output before connecting any load to prevent damage to connected devices.
- The transformer is designed for DIN rail mounting. Ensure it is securely fastened.
- Do not open the transformer housing. There are no user-serviceable parts inside.

3. PRODUCT OVERVIEW

The VEMER VN320800 TMC 40/24 is a compact and reliable DIN rail transformer. Key features include:

- **Model:** VN320800 TMC 40/24
- **Primary Voltage:** 230 V AC
- **Secondary Voltage:** 12-24 V AC (selectable or depending on wiring)
- **Power Output:** 40 VA
- **Mounting:** DIN Rail (3 modules DIN)
- **Dimensions:** 5.4 x 6 x 8.7 cm

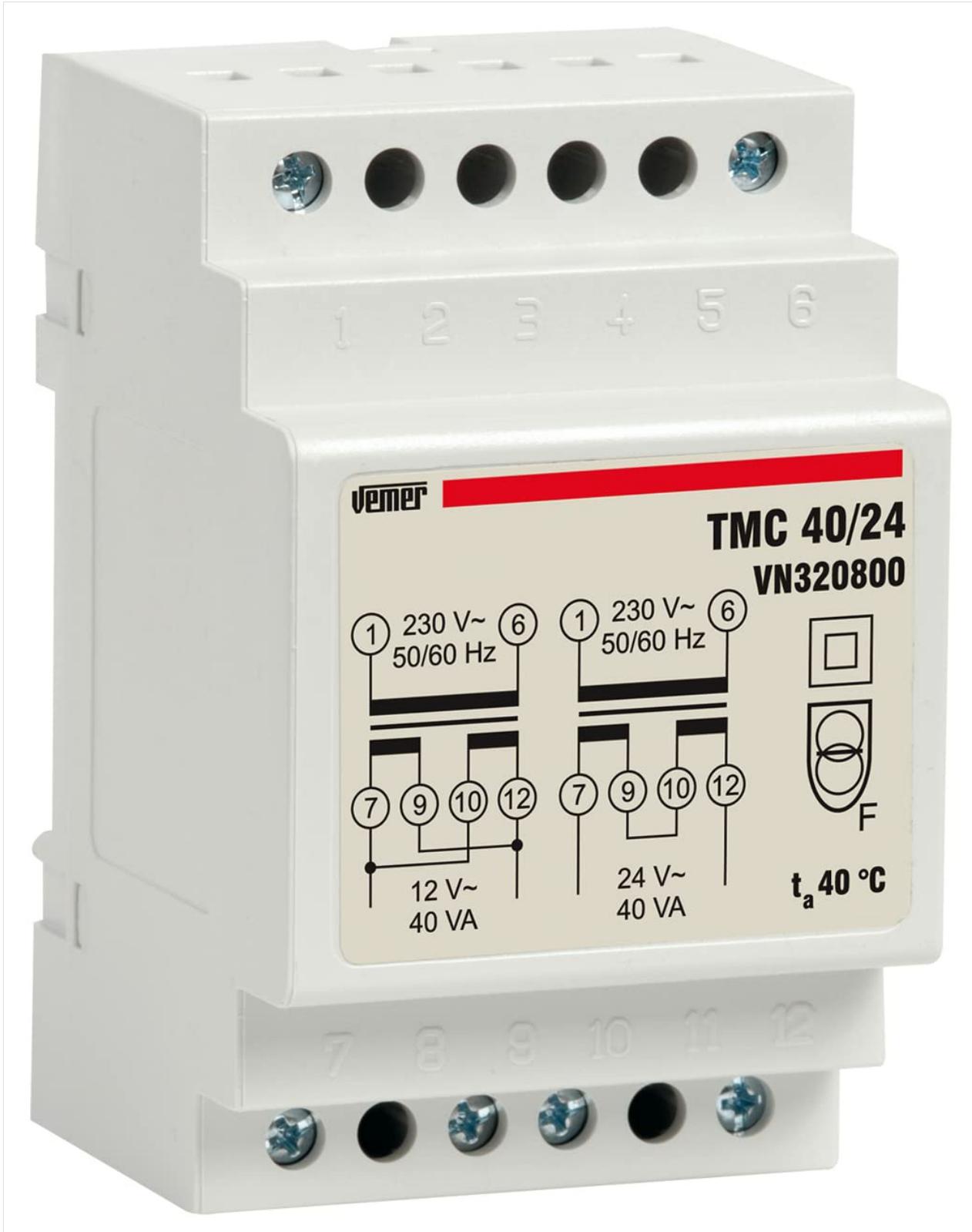


Figure 1: Front view of the VEMER VN320800 TMC 40/24 DIN Rail Transformer.



Figure 2: Product label detailing model VN320800, TMC 40/24, primary 230V AC, and secondary 12-24V AC.

4. SETUP

4.1 Mounting

The VEMER VN320800 TMC 40/24 transformer is designed for mounting on a standard DIN rail (3 modules wide).

1. Ensure the DIN rail is securely installed within an electrical enclosure.
2. Align the transformer's mounting clips with the DIN rail.
3. Press the transformer firmly onto the rail until it clicks into place.
4. Verify that the transformer is stable and cannot be easily dislodged.





Figure 3: Rear view of the transformer, illustrating the DIN rail mounting clips.

4.2 Wiring

CAUTION: Incorrect wiring can cause damage to the transformer or connected devices. Refer to the wiring diagram on the product label or device for specific connections.

1. **Primary Connection (Input):** Connect the 230 V AC mains supply to the designated primary terminals. Ensure proper phase and neutral connections.
2. **Secondary Connection (Output):** Connect your low-voltage device(s) to the secondary terminals. The transformer provides 12-24 V AC output. Consult the product label for specific terminal configurations for 12V and 24V output.
3. Use appropriate wire gauges for all connections to handle the current safely.
4. Ensure all terminal screws are tightened securely to prevent loose connections and arcing.



Figure 4: Top view showing the primary and secondary connection terminals.

5. OPERATING INSTRUCTIONS

Once properly installed and wired, the VEMER VN320800 TMC 40/24 transformer operates automatically when power is supplied to its primary input.

- Apply 230 V AC power to the primary input terminals.
- The transformer will convert this to the specified secondary voltage (12-24 V AC) at the output terminals.
- Ensure the total power consumption of all connected devices does not exceed 40 VA.
- Monitor the connected devices for proper operation.

6. MAINTENANCE

The VEMER VN320800 TMC 40/24 transformer is designed for long-term, maintenance-free operation.

However, periodic checks are recommended:

- **Visual Inspection:** Periodically inspect the transformer and its connections for any signs of damage, overheating, or loose wiring.
- **Cleaning:** If necessary, gently clean the exterior of the transformer with a dry, soft cloth. Do not use liquids or abrasive cleaners.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges.
- **No Internal Servicing:** Do not attempt to open or repair the transformer. Refer any issues to qualified service personnel.

7. TROUBLESHOOTING

If you encounter issues with your VEMER VN320800 TMC 40/24 transformer, consider the following:

- **No Output Voltage:**
 - Check if the primary 230 V AC power supply is active.
 - Verify all primary and secondary wiring connections are secure and correct.
 - Ensure no short circuits exist in the connected load.
- **Incorrect Output Voltage:**
 - Measure the output voltage with a multimeter.
 - **Important Note:** Some users have reported that the actual output voltage can be higher than the stated 12V or 24V (e.g., 12V output measuring 16V, or 24V output measuring 29-32V) when unloaded or lightly loaded. This can potentially damage sensitive low-voltage devices. Always verify the actual output voltage with a multimeter before connecting critical equipment. If the voltage is too high, consider using a voltage regulator or a different transformer.
 - Ensure the load is within the 40 VA rating. Overloading can cause voltage drop.
- **Overheating:**
 - Disconnect power immediately.
 - Check if the transformer is overloaded (total connected load exceeds 40 VA).
 - Ensure adequate ventilation around the transformer.
 - Verify there are no short circuits in the secondary circuit.

8. SPECIFICATIONS

Model Number	VN320800
Style	TMC 40/24
Primary Voltage	230 V AC
Secondary Voltage	12-24 V AC
Power Output	40 VA
Mounting Type	DIN Rail (3 modules)

Dimensions (L x W x H)	5.4 x 6 x 8.7 cm
Weight	600 grams
Manufacturer	Vemer
Country of Origin	Italy
Compliance	CE, DIN

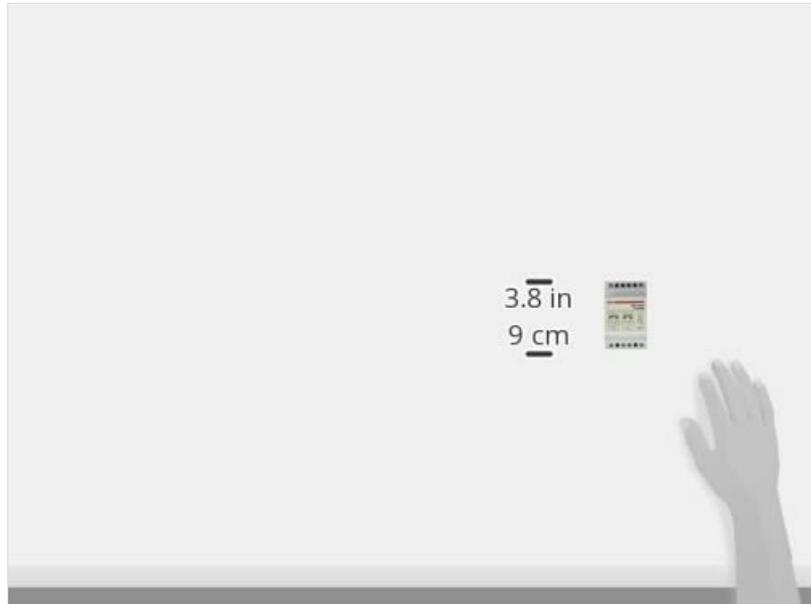


Figure 5: Approximate dimensions of the transformer.



Figure 6: Side label with manufacturer information and compliance markings.

9. WARRANTY AND SUPPORT

VEMER products are manufactured to high-quality standards. For warranty information and technical support, please refer to the official VEMER website or contact your local distributor. Keep your purchase receipt as proof of purchase.

For further assistance, please visit www.vemer.com.