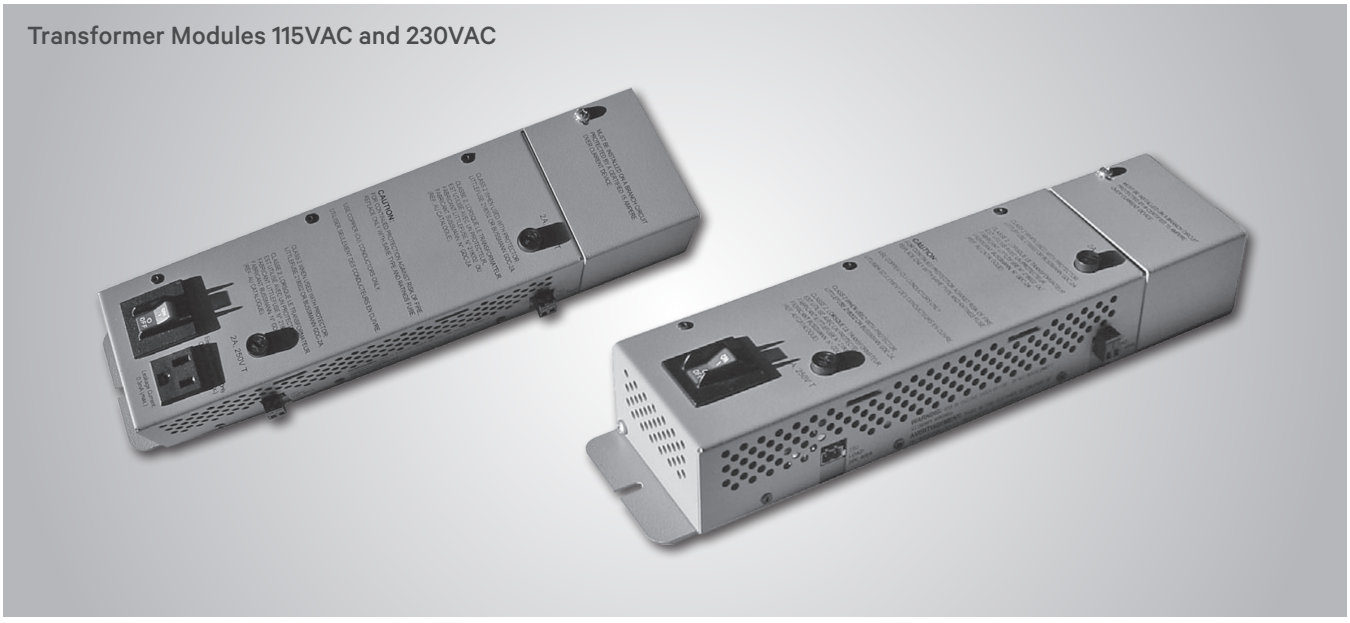
TRANSFORMER MODULES 115VAC AND 230VAC

Product Specification/Installation Guide



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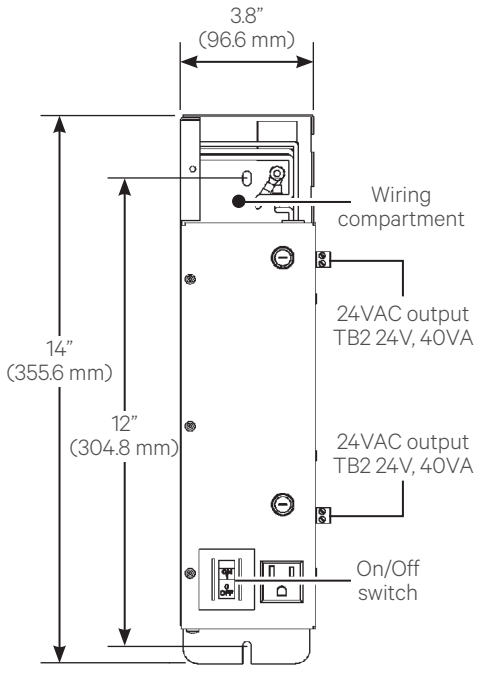
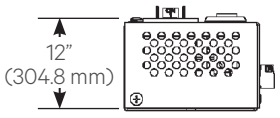




The TM115 and TM230 transformer modules are designed as self-contained, stand-alone devices.

- The TM115 module converts 115VAC to two 24VAC outputs. The unit includes an On/Off switch and a 115VAC power receptacle.
- The TM230 module converts 230VAC to two 24VAC outputs. The unit includes an On/Off switch.

Each of the 24VAC outputs for the TM115 and TM230 has a replaceable fuse for circuit protection.

TERMINATION AND MOUNTING

CAUTION: *The 115VAC Transformer Module must be connected to a branch circuit with 15A branch circuit protection.*

This equipment is intended to be installed by a qualified and certified electrician who must review and approve customer-supplied wiring and circuit breakers, verify correct input and grounded connections to ensure compliance with the technical standards and national and local electrical codes.

The Transformer Module must be used only as indicated by the manufacturer.

CAUTION: *Verify that the Power On/Off switch is set to OFF before connecting any wiring to this unit.*

The switch is at the bottom of the unit.

INPUT POWER CONNECTIONS

To connect electrical power to the Transformer Module:

1. Mount the Transformer Module, if required, using the hole in the electrical wiring compartment and the mounting flange at the bottom of the unit.
2. Install electrical wiring from utility power to the Transformer Module.
3. Use copper wires only; proper wiring to use for power is 14/2 AWG solid copper wire with ground. Strip wire 1/2".

4. Connect the wiring using the wiring color and connection table seen to the right in **Figure 1**.

   As shown in **Figures 2**, secure the incoming electrical service wires to the TM115 input wires with wire nuts or to the TM230 connectors.

24VAC OUTPUT POWER CONNECTIONS

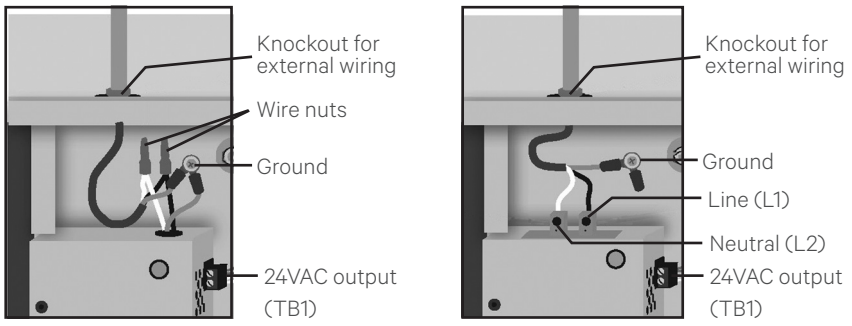
To connect to the 24VAC outputs:

1. Install electrical wiring from device requiring 24VAC power to the Transformer Module.
2. Use copper wire only; proper wiring to use for power is 18, 20 or 22 AWG copper wire. Strip wire 1/4".
3. There are two 24VAC output connectors (TB1 and TB2). Terminate wires to the connector as shown in **Figure 2**. TB1 and TB2 are NOT polarity sensitive.
4. Secure the wires to the connector.

Figure 1

CONNECTION TYPE	TM230	TM115
Neutral	Neutral (L2)	White wire
Power (line)	Line (L1)	Black wire
Ground	Ground lead	Green wire

Figure 2



TM115 **TM230**

SPECIFICATIONS

Power Input Requirements	115VAC ±10% of nominal; 50/60 Hz, 3.9A, 450VA	230VAC ±10% of nominal; 50/60 Hz, 0.5A, 115VA
Power Outputs (2)	24VAC ±10% of nominal; 1.67A, 40VA each output	24VAC ±10% of nominal; 1.67A, 40VA each output
Receptacle Output	115VAC ±10% of nominal; 50/60 Hz, 3A Leakage Current: 0.3mA max	NA
Dimensions WxDxH in.(mm)	3.8 x 2.65 x 14 (96.6 x 67.3 x 355.6)	
Weight (Assembled)	7.0 lb. (3.6 kg)	
Enclosure Type	NEMA 1	
Ambient Operating Environment	32°F to 104°F (0°C to 40°C) 0% RH to 95% RH (non-condensing)	

AGENCY LISTINGS

UL	UL1012 UL1310	UL1012 UL1310
CE	Yes	Yes
Fuses	2A, 250VT; replace with LITTLEFUSE 218002 or BUSSMANN GDC-2A	

TROUBLESHOOTING GUIDE

The following table lists common problems and possible solutions. For more information, consult your local dealer, Liebert representative or the Liebert Worldwide Support Group.

PROBLEMS	POSSIBLE SOLUTIONS
24VAC power not available from TB1 or TB2	Check fuse for respective output (TB1 or TB2). Replacement fuse part numbers are: • LITTLEFUSE 218002 or • BUSSMANN GDC-2A

ORDERING INFORMATION

PART #	DESCRIPTION
TM115	Transformer Module 115VAC with two 24VAC outputs (40VA each) and 115VAC receptacle
TM230	Transformer Module 230VAC with two 24VAC outputs (40VA each)

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