

Murphymatic[®] TR Series Transformer Relay Assemblies

The Murphy TR Series Transformer Relay Assemblies are electric motor controllers. Models are available for emergency shutdown, start and stop only, start and stop with emergency shutdown and combinations of the above models with time delay.

All TR Series internal control circuits are completely pre-wired and relays are plug-in type to facilitate field servicing.

The NEMA 1 enclosure is standard on all TR Series models. The NEMA 3 weatherproof enclosure and LC Less Case versions are optional.

Murphy Swichgage[®] instruments for pressure, temperature, level etc., can be used with the TRs for semiautomatic or totally unattended operation and control of your electric motor powered equipment.

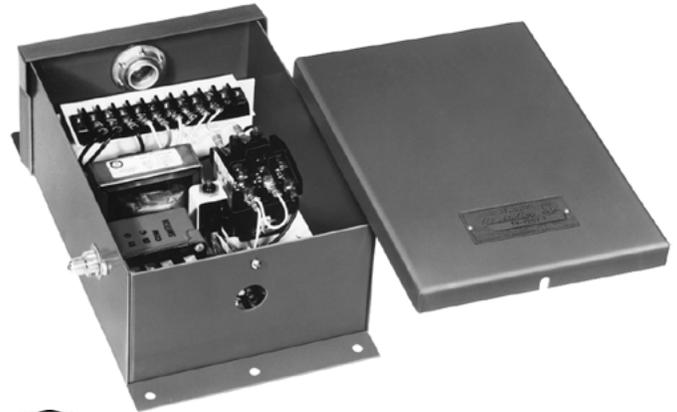
A set of normally open, dry relay contacts controlled by a 24 VAC relay coil controls the magnetic motor starter holding coil up to 480 volts. The high voltage contacts are completely isolated from the low voltage control to help reduce electrical hazards.

Features

- Heavy-duty transformer with multiple primary taps for easy connection to most any available AC power sources.
- 24 VAC low voltage secondary control circuit with terminals for remote auxiliary switches.
- Plug-in relays have three SPDT silver cadmium oxide contacts providing long life reliability.
- Power relay has extra heavy silver cadmium oxide contacts rated 10 amp, 480 VAC.
- When TR is used with a Murphy Analog Swichgage, it allows for visual reading of operating conditions and provides an adjustable differential between high and low settings throughout the Swichgage dial range.

Applications

The TR Series transformer relay assemblies are ideal for controlling a variety of electric motor driven applications. They are recommended for use on saltwater disposal systems, waterflood systems and many others. Model TR-1762 used in conjunction with model OPLHC Tank Level Controller and an OPLC Series discharge pressure can completely automate a salt water disposal pump.



Specifications

Transformer:

Primary (power supply) with triple taps for 120/240/480 VAC
50/60 Hz

Secondary (control supply) 24 VAC

Power Rating: 25 VA

Terminal Blocks:

High Voltage rated at 30 A, 600 V

Low Voltage rated at 20 A, 300 V

Control Relays: Plug-in, 120 V, 10 A contact rating

Contacts:

Power (holding): 10 A, 480 VAC, SPST

Control (auxiliary): 480 VAC, 690 VA pilot duty

Conduit: Top: 3/4 in. hub; Bottom 1/2 in. hole

Approximated Shipping Dimensions:

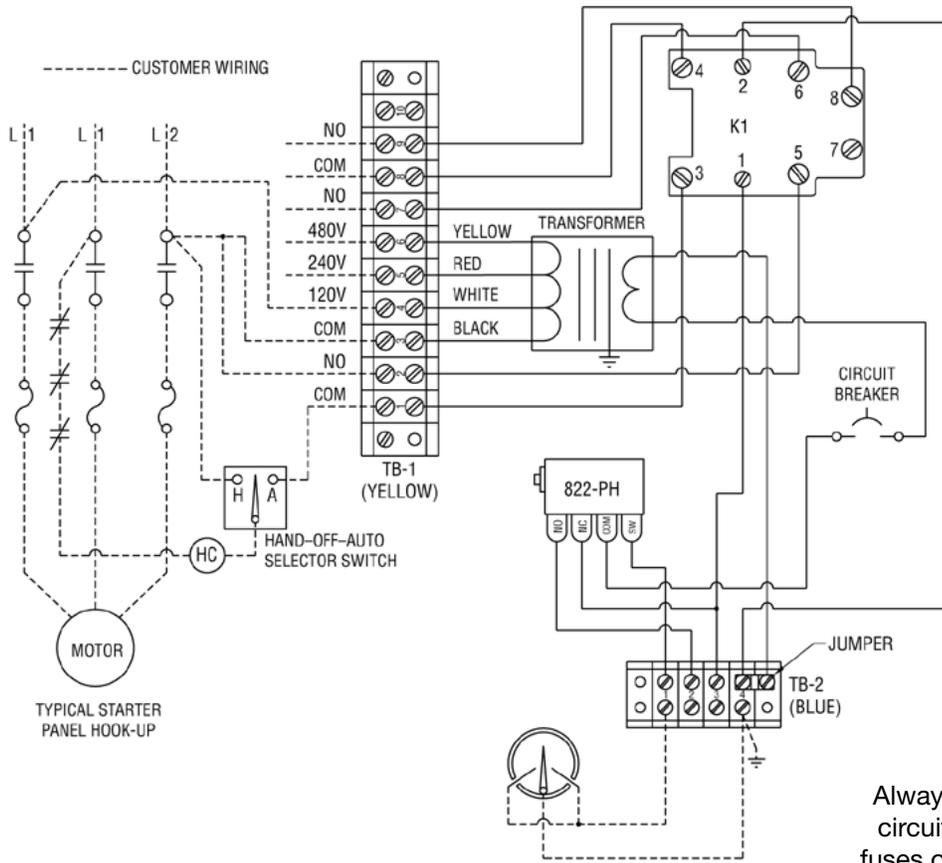
NEMA 1; NEMA 3; and "LC" Less Case:
15 x 15 x 7 in. (381 x 381 x 178 mm)

Approximated Shipping Weight:

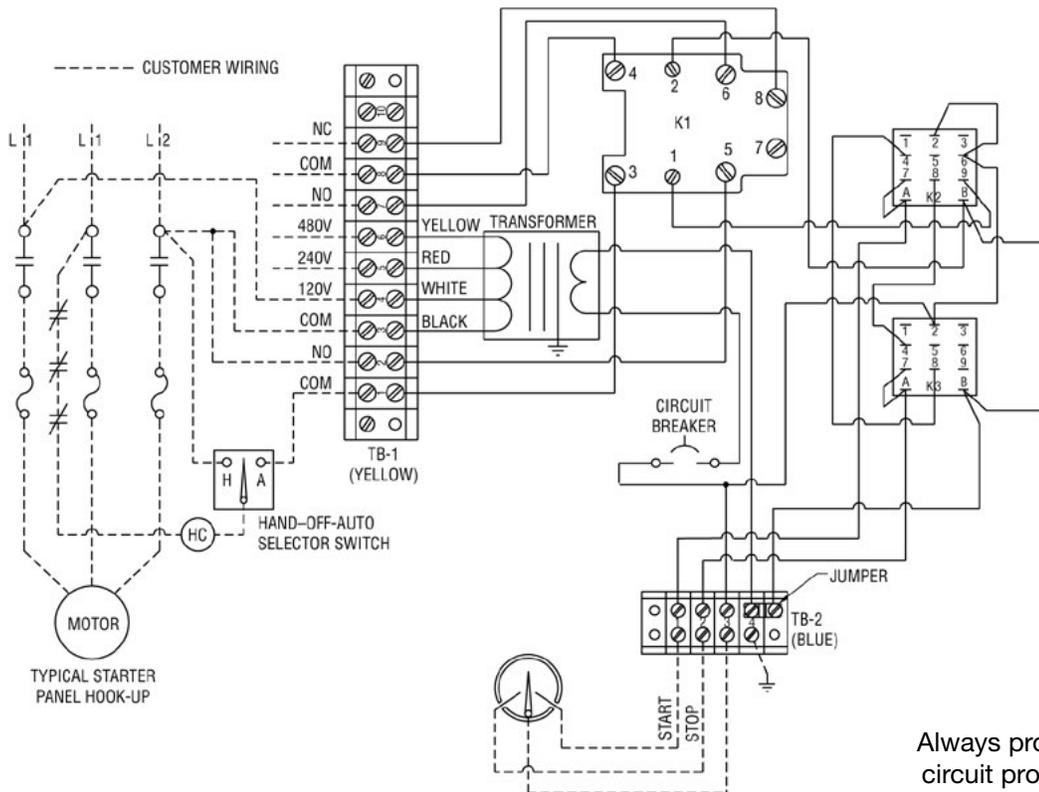
NEMA 1: 18 lb. (8.16 kg)

NEMA 3: 22 lb. (10 kg)

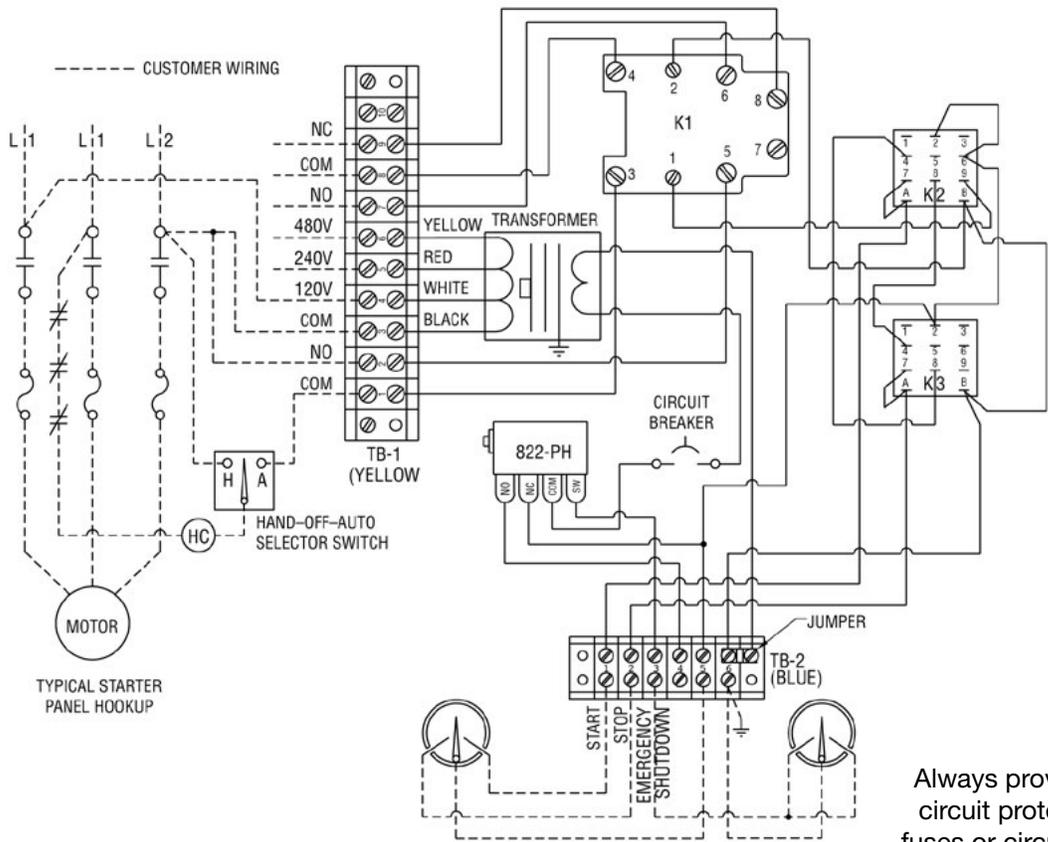
"LC" Less Case: 14 lb. (6.35 kg)



Always provide proper circuit protection with fuses or circuit breakers.



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How to Order

Part Number	Model and Description	Notes
Specify Model Number	TR7207	
	TR7208	
	TR9193	
	TR1760	Replaces TR-5171
	TR1761	Replaces TR-7159
	TR1762	Replaces TR-9195