



## installation instructions

# general purpose switching relays

### replacement procedure:

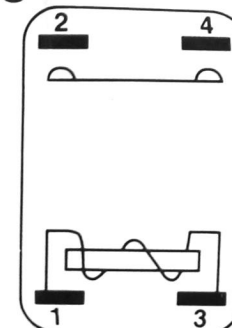
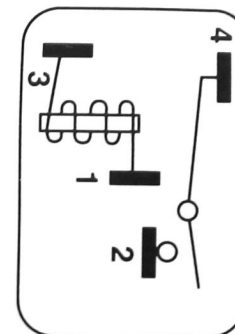
1. CAUTION: Disconnect power supply before servicing equipment
2. Identify and remove wires from defective relay.
3. Remove defective relay and install MARS replacement.
4. Refer to switch diagrams below and connect wires accordingly - the new terminal arrangement is simplified for easy field wiring.
5. Restore power and check operation.

**CAUTION: DO NOT EXCEED CONTACT RATINGS**

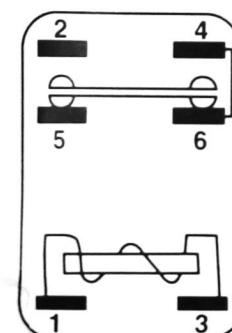
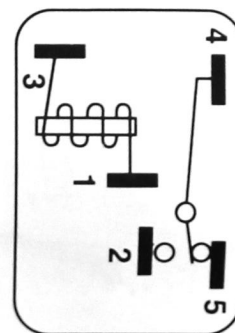
MARS NO.	NORMALLY OPEN COIL VOLTAGE	CONTACT RATING 125/250 VAC		REPLACES
		INDUCTIVE	RESISTIVE	
SPST				
90290	24	12 amps	25 amps	90-290, 90-290Q
90291	110/120	continuous		90-291, 90-291Q
90292	208/240	25 amps inrush		90-292, 90-292Q
SPDT				
90293	24	12 amps	25 amps	90-293, 90-293Q
90294	110/120	continuous		90-294, 90-294Q
90295	208/240	18 amps inrush		90-295, 90-295Q

### switch diagrams:

90290  
90291  
90292



90293  
90294  
90295



OLD

NEW

**NOTE:** Certain relays of this type found in the field have one side of the coil connected internally with terminal 4. Terminal 1 is omitted or unused and insulated. To replace this type relay, install an external jumper between terminals 1 and 4 of the MARS replacement.