

# FORWARD & REVERSE RELAY MODULE

## 12V DC High Power Motor Reversing Relays



### Description

Ideal for tarp or lift applications. Also used on hoists, hatches, winches, snowplows, intake/exhaust fans, vehicle outriggers and other reversing applications. Module automatically reverses the direction of the motor when the appropriate control circuit is energized with a pulse from a control switch. Dynamic braking stops the motor when the switch returns to Off. Low-profile module saves space. Studs are securely anchored in epoxy.

### Features and Benefits

- Dynamic braking.
- Carries a heavy load current.
- Intermittent or continuous operation.
- High performance silver tin oxide contacts assure long cycle life.
- Fully sealed to IP67 with high strength epoxy for total moisture protection to withstand very harsh environments.
- Ignition protected.
- Tin-plated brass studs and hardware for corrosion resistance.
- For intermittent operation, control switch should be Mom On-Off-Mom On; for continuous operation On-Off-On.

### Specifications Overview

|                              |   |
|------------------------------|---|
| <b>Intermittent Current:</b> | 70A at 12V DC intermittent<br>Max On time 5 mins<br>Off time 3 mins |
| <b>Continuous Current:</b>   | 50A at 12V DC   |
| <b>Load Current Inrush:</b>  | 150A.   |
| <b>Pull-In Voltage:</b>      | 7.8V max  |
| <b>Coil Resistance:</b>      | 82Ω ±10%  |
| <b>Vibration Resistance:</b> | 10-55Hz. Double amplitude 1.5mm                                     |
| <b>Environmental:</b>        | -40C to 85C. Rust and moisture-resistant plastic housing            |
| <b>Dielectric Strength:</b>  | 500V RMS between coil and contact                                   |
| <b>Dimensions:</b>           | 2.91" × 3.51" × 1.86" H<br>(73.9 × 91.7 × 47.2mm)                   |

### Web Resources

Download technical resources at:  
[littelfuse.com/24452](http://littelfuse.com/24452)

### Ordering Information

| PART NUMBER      | DESCRIPTION                                 |
|------------------|---|
| 24452            | 2V DC high power motor reversing relays     |
| <del>97297</del> | <del>Protective Cover</del> <b>Obsolete</b> |

### Accessories

| PART NUMBER | DESCRIPTION                  |
|-------------|------------------------------|
| 24401       | SPDT Double-action Solenoid  |
| 55046       | DPDT Reverse Polarity Toggle |
| 75712-04    | Rotary Reversing Switch      |



24401



55046



75712-04



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