

Removable Flange-Mounted Cover for Easy Access

NO WIRING ACROSS THE DOOR HINGE

Enclosure
NEMA 3R Rainproof and Sleet Resistant construction with stainless steel door latches and special corrosion resistant paint.

Padlocking
Provision on door latch for locking door closed, as well as provision for padlocking disconnect switch in OFF or ON position.

External Reset Button

UL LISTED
Underwriters Laboratories Inc. listed under File E55632, includes the "Suitable for Use as Service Equipment" label.

Drip Shield Over Door Opening for added weather protection. Top mounting conduit hubs provided.

Circuit Block

Motor Circuit Protector
Features an adjustable magnetic trip characteristic for accurate, dependable fault protection and simultaneous trip of all poles to prevent single phasing.

Optional SmartBOX™ Feature ★

Hand/Off/Auto (HOA) Selector Switch and Start Push-Button
Heavy-duty units mounted on the flange of the enclosure for outside accessibility.

Start/Bypass Button
Accessible from front of enclosure (booted for environmental protection) for operation of overload relay reset function.

Grounding Lugs

C316 Bimetallic Ambient Compensated Overload Relays
Covering applications up to 200 HP

AMPLE SPACE PROVIDED FOR OPTIONAL FEATURES!

STANDARD FEATURES INCLUDE:

- Nema 3R Enclosure
- Main circuit breaker with padlockable handle
- Magnetic contactor
- Adjustable thermal overload protection
- External reset pushbutton
- Fused control circuit
- Hand-Off-Auto (HOA) selector switch with start pushbutton
- Terminal block for connection of remote control Device (LOW PRESSURE SWITCH)

★ NOTE ~ "MPLC" MODEL NUMBER DESIGNATE THE USE OF AN OPTIONAL SmartBOX™ PUMP PROTECTION SYSTEM.

| HP | Phase | Size | Approx. Wt. Lb. | Part Number | Size | Approx. Wt. Lb. | Part Number |
|-----------------------------------------------------------------|-------|----------------|-----------------|-------------|----------------|-----------------|-------------|
| 230V | | | | | | | |
| 3 | 1 | 25" x 16" x 9" | 43 | MPCP2103 | 25" x 16" x 9" | 46 | MPLCCP2103 |
| 5 | 1 | | 43 | MPCP2105 | | 46 | MPLCCP2105 |
| 7.5 | 1 | | 44 | MPCP2107 | | 47 | MPLCCP2107 |
| 10 | 1 | | 44 | MPCP2110 | | 47 | MPLCCP2110 |
| * SmartBox Option provides low pressure cut-off pump protection | | | | | | | |
| 230V | | | | | | | |
| 3 | 3 | 25" x 16" x 9" | 43 | MPCP2303 | — | — | — |
| 5 | 3 | | 43 | MPCP2305 | 25" x 16" x 9" | 43 | MPCP4305 |
| 7.5 | 3 | | 43 | MPCP2307 | | 43 | MPCP4307 |
| 10 | 3 | | 43 | MPCP2310 | | 43 | MPCP4310 |
| 15 | 3 | | 44 | MPCP2315 | | 43 | MPCP4315 |
| 20 | 3 | | 44 | MPCP2320 | | 43 | MPCP4320 |
| 25 | 3 | | 44 | MPCP2325 | | 44 | MPCP4325 |
| 30 | 3 | 39"x19"x11" | 90 | MPCP2330 | | 44 | MPCP4330 |
| 40 | 3 | | 90 | MPCP2340 | | 44 | MPCP4340 |
| 50 | 3 | | 90 | MPCP2350 | | 44 | MPCP4350 |
| 60 | 3 | — | — | — | 39"x19"x11" | 90 | MPCP4360 |
| 75 | 3 | — | — | — | | 90 | MPCP4375 |
| 100 | 3 | — | — | — | | 90 | MPCP43100 |
| 460V | | | | | | | |



FOR MORE INFORMATION ABOUT OTHER INNOVATIVE PRODUCTS BY MUNRO, CALL FOR THE DISTRIBUTOR NEAREST YOU

PH: 800.942.4270 • FAX: 970.263.2277

E-MAIL: MMI@munrocompanies.com • WEBSITE: www.munromfg.com



PUMP START RELAY FOR MOTOR CONTROL



THE STARTING CHOICE FOR LAWN CONTROL(LERS)



MUNRO MANUFACTURING INC.
A MUNRO COMPANY



The StartBOX™
BY MUNRO MANUFACTURING
The Starting Choice For Lawn Control(lers)®



From the basic pump start relay, the NEC code-compliant boxes, or the custom box demanded of a specific system, Munro Manufacturing can provide a quality package for all light-duty motor control needs.

The full line of Munro Manufacturing start boxes are housed in compact NEMA 3R weather tight enclosures. All products are available in either stainless steel or "baked-on" powder coating, blue or grey, for long life in difficult environments. All enclosures are UL Listed as "Enclosed Industrial Control Panels" and backed by a limited two-year warranty.

Colors Available:



Powder-Coated Blue



Powder-Coated Grey



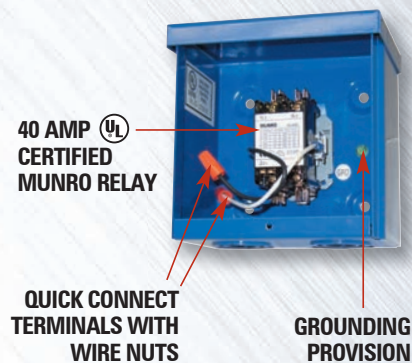
Stainless Steel

The **StartBOX™** Pump Start Relay provides "pilot duty" operation for all types of electrically driven pump equipment with available coil voltages of 24, 110 and 220 volts.

- **COMPATIBLE WITH 110 OR 220 VOLT, 3/4 HP THRU 7-1/2 HP* SINGLE PHASE PUMPS**
- **COMPATIBLE WITH MOST 24 VOLT TIMED LAWN CONTROLLERS**

| Type of Enclosure | Coil Voltage | HP | Heater Code Number |
|-------------------|--------------|-----------------|--------------------|
| MPSR | 24 | 3/4 THRU 7-1/2* | MPSR24 |
| MPSR | 110 | 3/4 THRU 7-1/2* | MPSR110 |
| MPSR | 220 | 3/4 THRU 7-1/2* | MPSR220 |

MODEL SHOWN **MPSR24**

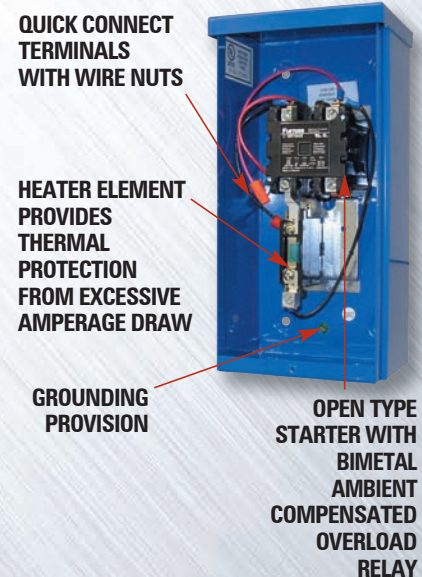


Startbox Plus

Munro has combined the simplicity of the pump start relay with a thermal overload strip to provide a cost effective National Electrical Code (NEC) compliant relay box. The NEC states all motors will be thermally protected from excessive "amperage draw." Because circuit breakers and/or fuses do not constitute thermal overload protection, this requirement is often met through the application of elaborate, and therefore, more expensive "pump panels" - until now.

| Type of Enclosure | Coil Voltage | HP | Part Number |
|-----------------------------------------------|--------------|-------|-------------|
| WITH CODE-COMPLIANT THERMAL PROTECTION | | | |
| MPSR | 24 | 3 | MPSR24V3 |
| MPSR | 110 | 3 | MPSR110V3 |
| MPSR | 220 | 3 | MPSR220V3 |
| MPSR | 24 | 5 | MPSR24V5 |
| MPLC | 220 | 5 | MPSR220V5 |
| MPSR | 24 | 7-1/2 | MPSR24V75 |
| MPSR | 220 | 7-1/2 | MPSR220V75 |
| MPSR | 24 | 10 | MPSR24V10 |
| MPSR | 220 | 10 | MPSR220V10 |

MODEL SHOWN **MPSR24V75**



ALL MUNRO RELAYS & PUMP PROTECTION SYSTEMS ARE UL LISTED as ENCLOSED INDUSTRIAL CONTROL PANELS
LOOK FOR THE LISTING MARK!



* NATIONAL ELECTRICAL CODE (NEC) STATES ALL MOTORS WILL BE THERMALLY PROTECTED FROM EXCESSIVE "AMPERAGE DRAW."

MOST MOTORS UNDER 2 HP ARE SUPPLIED WITH THERMAL PROTECTION FROM THE MOTOR MANUFACTURER. FOR MOTORS OVER 2 HP, **StartBOX™** CODE-COMPLIANT IS RECOMMENDED.

Based on our policy of improving and developing products, we reserve the right to alter specifications of our product at any time without giving prior notice.



One Lawn Controller Starting Multiple Pumps



Multiple Lawn Controllers Starting One Pump



Hand Off Auto (HOA) Switches for On-Site Shut Off and Run Commands



Multiple Relays Per Box



Three Phase



Two-Ball Pump Up



Two-Ball Pump Down



UPGRADE:
SmartBox with Low Pressure Shut-Down



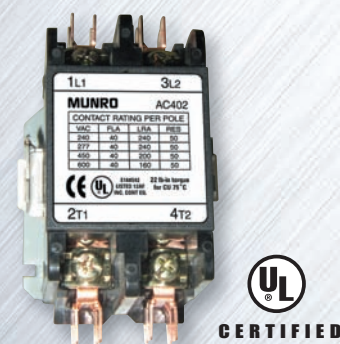
Float Switch Activation

FOR MORE INFORMATION ABOUT OTHER INNOVATIVE CUSTOMIZATIONS BY MUNRO MANUFACTURING, CONTACT ONE OF OUR SPECIALISTS!

PHONE: 1.800.942.4270
EMAIL: MMI@MUNROCOMPANIES.COM

MUNRO RELAYS

Munro's 40 AMP Relays are designed with specific parameters in mind:



- **FULLY ENCLOSED CONTACTS**
- **HIGH HOLDING POWER ON OVERSIZED CONTACTS**
- **LOW CURRENT REQUIREMENTS ON THE COIL FOR LOWER REQUIRED HOLDING POWER**
- **AVAILABLE IN 24 VOLT, 110 VOLT OR 220 VOLT**
- **AVAILABLE IN A 2-POLE, 3-POLE OR 4-POLE**
- **OPTION OF A SCREW BASE OR DIN RAIL MOUNTING**



| Enclosure Dimensions | Finish | Color | Lockable | NEMA Rating | Part Number |
|----------------------|-----------------|-----------------|----------|-------------|-------------|
| 6x6x4" | Powder Coated | Grey | No | NEMA3R | EN664G3 |
| 6x6x4" | Stainless Steel | Stainless Steel | No | NEMA3R | EN664S3B |
| 8x8x4" | Powder Coated | Grey | No | NEMA3R | EN884G3 |
| 8x8x4" | Stainless Steel | Stainless Steel | No | NEMA3R | EN884S3B |
| 12x12x6" | Powder Coated | Grey | Yes | NEMA3R | EN12126G3 |
| 12x12x6" | Stainless Steel | Stainless Steel | Yes | NEMA3R | EN12126S3 |
| 12x18x8" | Powder Coated | Grey | Yes | NEMA3R | EN12188G3 |
| 12x18x8" | Stainless Steel | Stainless Steel | Yes | NEMA3R | EN12188S3 |