



# ML-ACR

## AUTOMATIC CHARGING RELAYS

**AUTOMATICALLY MANAGES THE CHARGING OF TWO LARGE BATTERY BANKS WITH OPTIONAL MANUAL OVERRIDE FOR EMERGENCY BATTERY PARALLELING**

- 500 Ampere continuous rating
- Magnetic Latching (ML)
- Optional Start Isolation for temporary isolation of House loads from Engine circuit during engine cranking to protect sensitive electronics
- Optional Engine Isolation for isolation of two engines while both are running to protect engine electronics and maximize alternator output
- Manual override knob provides an added level of safety allowing manual ON-OFF control with or without power while offering LOCKED OFF capability for servicing the electrical system
- Dual sensing senses charging on two battery banks
- LED output to remotely indicate when batteries are COMBINED or ISOLATED (requires optional LED)
- Tin-plated copper studs for maximum conductivity and corrosion resistance
- Silver alloy contacts provide high reliability for switching live loads
- Label recesses for circuit identification



LINK BUS 9160 for easy connection to the ML-Series Remote Battery Switches

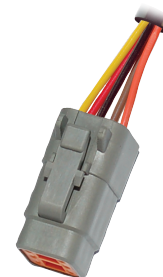


Scan for additional product information



7622

Stripped Wire Termination provided on retail packaged units



Deutsch DTM Cable End provided on bulk packaged units. Other connector plugs are available for high volume OEM applications



Included with retail packaged unit  
2146 ML-Series Remote Control Contura Switch

### SELECTION TABLE

Part Numbers	Volts	Manual Override Knob	Retail Packaged	Weight lb (kg)
7622	12V	Yes	Yes	1.75 (0.79)
7622100B	12V	Yes	No	1.75 (0.79)
7623	24V	Yes	Yes	1.75 (0.79)
7623100B	24V	Yes	No	1.75 (0.79)
7620	12V	No	Yes	1.69 (0.77)
7620100B	12V	No	No	1.69 (0.77)
7621	24V	No	Yes	1.69 (0.77)
7621100B	24V	No	No	1.69 (0.77)

# ML-SERIES

## AUTOMATIC CHARGING RELAY

### Specifications

Cranking Rating: 10 sec.	2,500 Amps
Intermittent Rating: 5 min.	See table below
Continuous Rating	See table below
Amperage Operating Current	<13mA*
	<7A (40ms) when changing states*
Max. Circuit Voltage Rating	16.5V DC @ 12V DC 32V DC @ 24V DC
Live Current Switching	300A @ 12V DC-10,000 Cycles
Terminal Stud Size	3/8"-16
Recommended Ring Terminal	3/8" (M10)
Maximum Terminal Stud Torque	140 in-lb (15.5 N·m)
Operating Temperature Range	-10°C to 50°C

\* @ 25°C nominal VDC

### Relay Contact Position:

-Combine (30 sec.)	13.5V @ 12V DC 27.0V @ 24V DC
-Combine (90 sec.)	13.0V @ 12V DC 26.0V @ 24V DC
-Open Low (10 sec.)	12.35V @ 12V DC 24.7V @ 24V DC
-Open Low (30 sec.)	12.75V @ 12V DC 25.5V @ 24V DC
-Open High	16.2V @ 12V DC 32.4V @ 24V DC

### Regulatory

**IP** Meets ISO 8846 ignition protection, and SAE J1171 external ignition protection requirements

**66** IP66—Protected against powerful water jets

**CE** marked

### Intermittent and Continuous Ratings Table

Wire Size	Intermittent Rating	Continuous Rating
2/0	400A	225A
4/0	400A	300A
2x (4/0)	700A	500A

### Remote Control Contura Switch

Contura Control Switch	Sustained SPDT ON-OFF-ON
Seals	Internal & External Gasket Panel Seal
Operating Temperature Range	-40°C to 85°C (-40°F to 185°F)
Mounting Cut-out	1.450" x 0.830" (36.83mm x 21.08mm)
LED Rating	100,000 hours 1/2 life
Amperage Operating Current (LED)	18mA

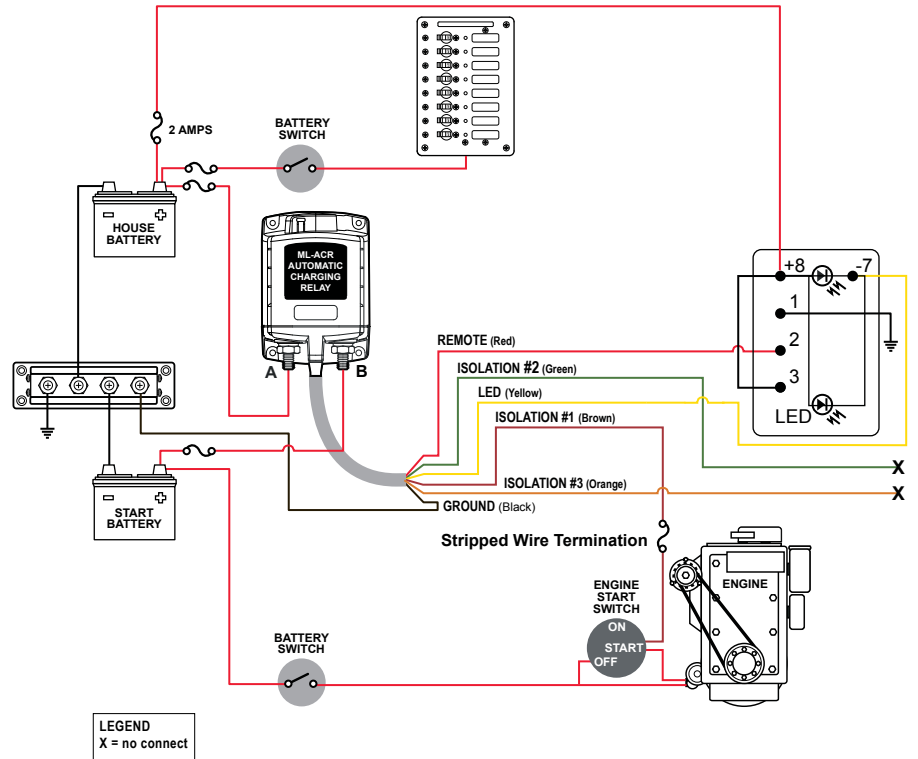
### Regulatory

**IP** Meets ISO 8846 and UL 1500 external ignition protection requirements

**67** IP67—Protected against immersion up to 1 meter for 30 minutes

## AUTOMATIC CHARGING RELAY

Start Isolation Installation Diagram with Remote Control Contura Switch (PN 2146)



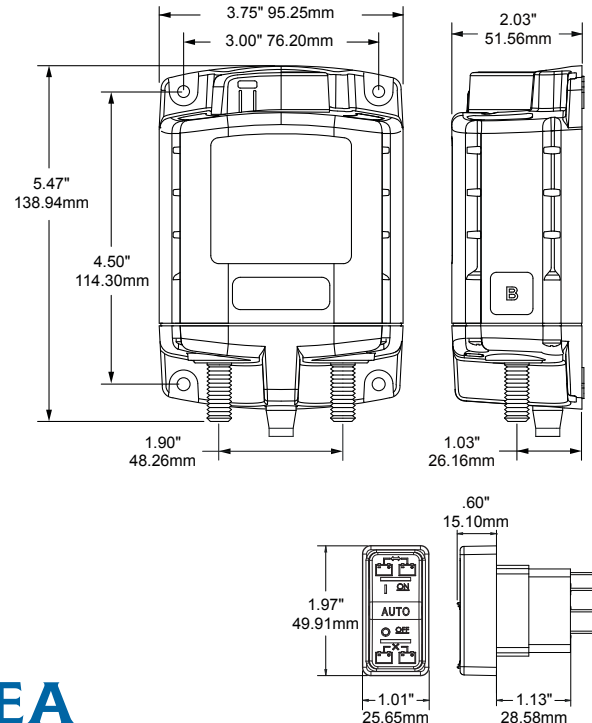
### OPTIONAL ACCESSORIES



Switches: 2145 (2); 2146 (1)  
1147



9160 Paralleling Link Bus



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Specifications subject to change.  
See www.blueseas.com for current information.