

Reversing Polarity

“Provides a comprehensive, clean, efficient solution for reversing polarity.”



Trombetta's Reversing Polarity (RP) DC Contactors provide a cost effective and simple solution for reversing polarity of permanent magnet DC motors. By integrating two DC Contactors into a single unit, Trombetta has streamlined the assembly. The result is less assembly time, less potential for problems and more reliable performance.



The RP can also be customized to specific motors and load requirements. The RP is perfect for any application that requires reversing motion: Truck winch, tarp systems, boatlifts, RV slide-outs and RV leveling systems.

TROMBETTA 
DC Power Solutions for a Harsh World

Reversing Polarity DC Contactor Specifications

Coil Terminals	(2) Low Current Terminals (1/4" spade)
	(4) 5/16-24 Studs - High Current Terminals, 2 for motor and 2 for battery
Standard Operating Temperature Range	-40° C to 50° C
	Relay is dust and splash resistant.

Coils

Contact

Model	Max Sustained Duty Cycle ^{1*}	Max On Time [†]	Pull In Voltage ²	Hold Voltage ²	Coil Resist Ohms	Resistive Load Carry/Interrupt Capability (Amps) ³	Inductive Load Carry/Interrupt Capability (Amps) ³	Peak Inductive Inrush Capability (Amps) ⁴	Electrical Cycle Life	Contact Material
12V Standard	16%	2 minutes	7.5	2.5	5.6	75 for 2 min. (125 for 30 sec.) 150 amps	75 for 2 min. (125 for 30 sec.) 150 amps	150	10,000	Copper
12V Enhanced	16%	2 minutes	7.5	2.5	5.6	75 for 2 min. (125 for 30 sec.) 150 amps	75 for 2 min. (125 for 30 sec.) 150 amps	350	5,000	Copper and Silver Alloy Plating
12V High Perf.	16%	2 minutes	8.0	2.5	5.6	75 for 2 min. (140 for 30 sec.) 250 amps	75 for 2 min. (140 for 30 sec.) 250 amps	500	5,000	Copper with Silver Alloy Plating
24V Enhanced	16%	2 minutes	15	5.0	25.5	75 for 2 min. (125 for 30 sec.) 180 amps	75 for 2 min. (125 for 30 sec.) 180 amps	150	10,000	Copper and Silver Alloy Plating

¹Nominal coil voltage applied starting from 25° C DC Contactor temperature. Duty Cycle=On Time/(On Time + Off Time). ²Voltages listed are minimum required at 25° C coil temperature. Minimum voltage requirements will increase with coil temperature. ³Amps at Max Duty Cycle. ⁴Risetime ≥ 3 milliseconds to 80% of peak inrush with linear decay to run (carry) current in ≤.1 seconds.

Enter Complete Part Number Below –

Ordering Information • Some configurations are not available. Contact your Trombetta sales rep before ordering.

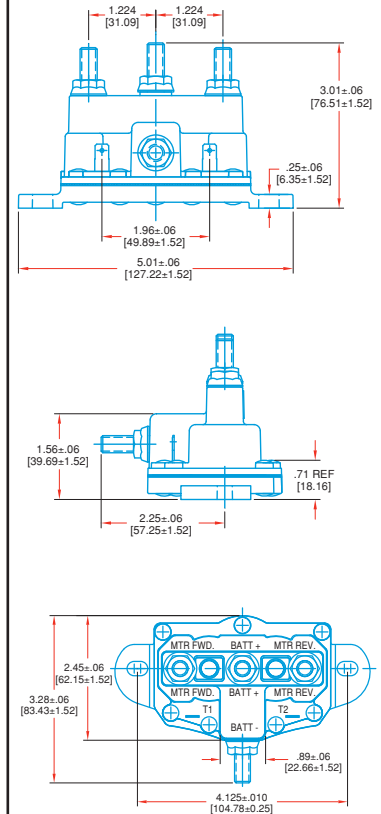
Family	Coil Connection Configuration	High Current Stud	Coil Voltage	Bracket Type	Bracket Location	Duty Cycle	Contact Material	Sealing
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2- Reversing Polarity (RP)	1- Grounded Coils (2) each with (1) 1/4" Spade and a common 5/16-24 Central Ground	4- Standard R.P.	12- 12 Volt 24- 24 Volt	1- Hose Clamp Mount Bracket 3- Molded	1- Standard Location	A- 20% Sustained	1- Copper 5- Alloy Silver Contact Bars	1- Resistant to dust, liquid

*Additional Max On Times and Duty Cycle Combinations:

Max On Time	Duty Cycle Max
60 seconds	35%
90 seconds	25%
120 seconds	16%
150 seconds	5%

†Trombetta has the ability to test for customer's specific conditions.

TYPICAL DIMENSIONS



Dimensions in Brackets [] are metric

