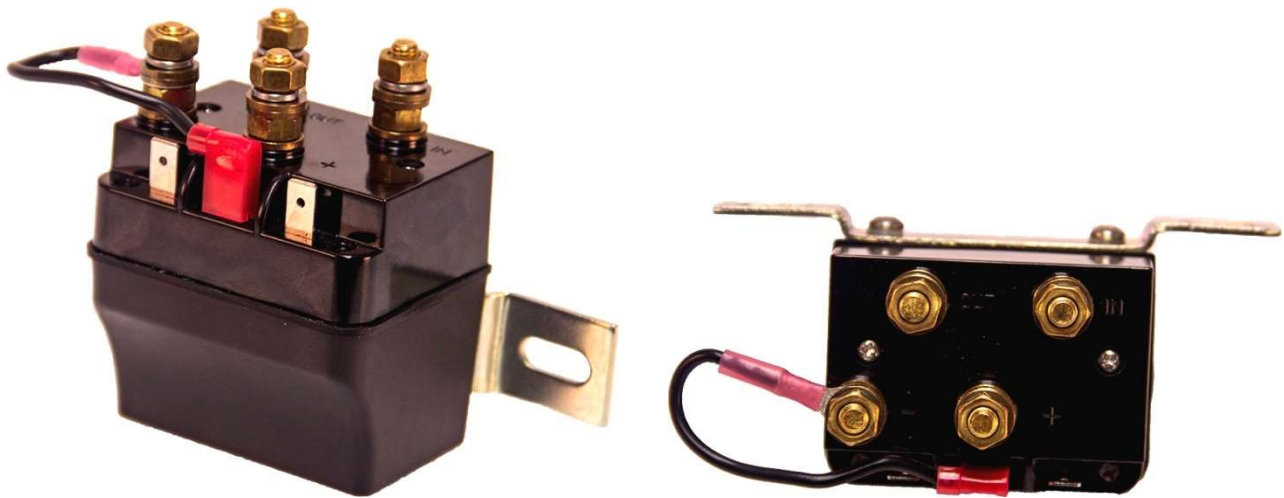


Product Data Sheet

This device is ideal for switching high-current DC linear actuators or motors where direction is controlled by reversing polarity of the applied power. Two independent high-current SPDT relays are combined internally, one for each direction. With both relay coils energized or de-energized simultaneously, the output terminals are shorted together, providing a dynamic braking function to reduce motor coasting.



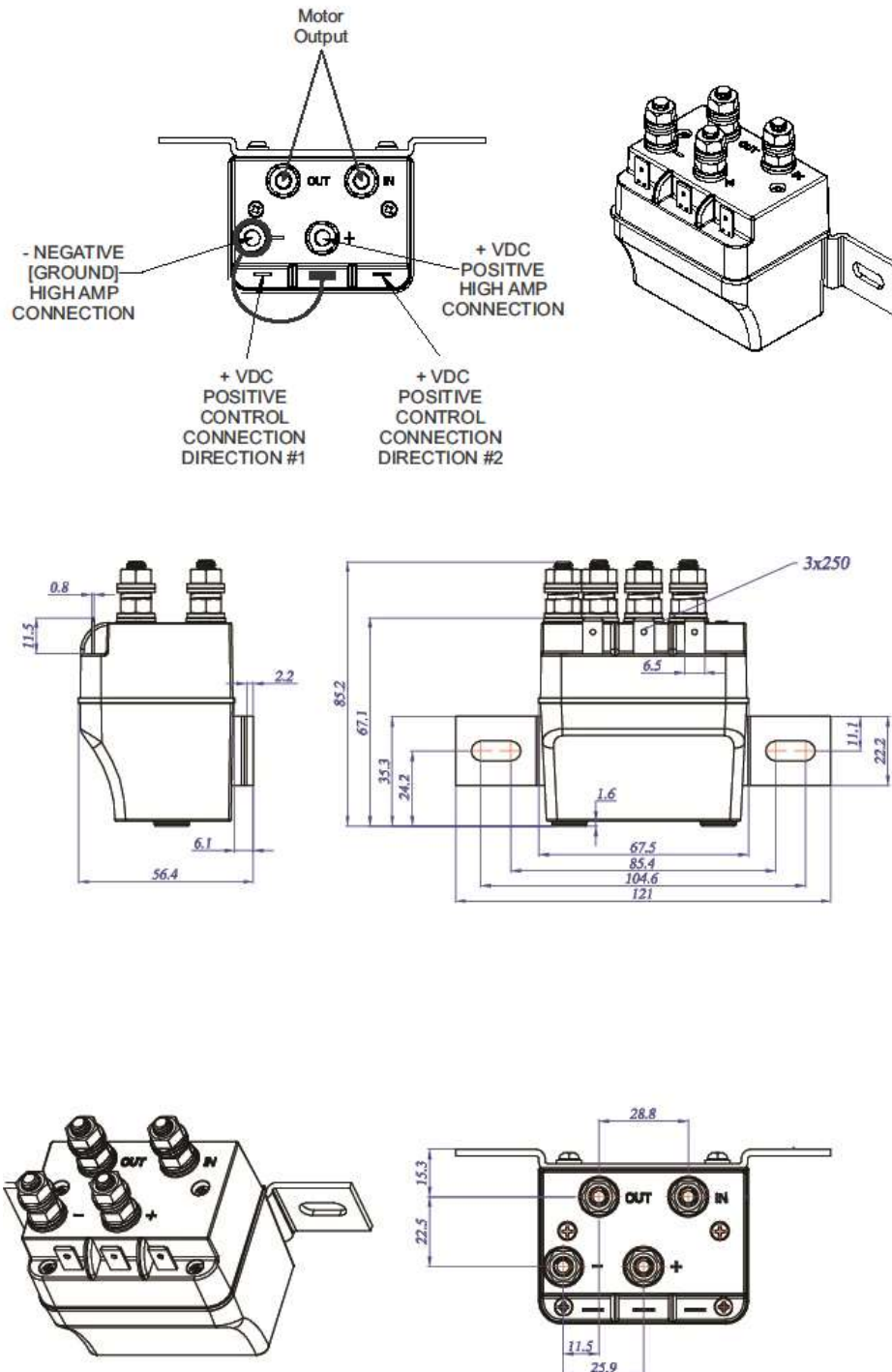
Standard Features

- Available with 12VDC or 24VDC coils
- Contacts rated at 100 Amps
- Dynamic braking - Reduces motor coasting when de-energized
- Self-contained - Simplifies wiring
- Nylon Locknuts on threaded studs for vibration resistance
- IP65 rated

Specifications

	GF90-1244 (12V)	GF90-1383 (24V)
Contact Arrangement	Two SPDT	Two SPDT
Contact Material	AgSnO ₂ INO ₃	AgSnO ₂ INO ₃
Contact Rating (Resistive)	100A	100A
Contact Rating (Maximum Inrush)	200A	200A
Contact Resistance (Maximum)	100mΩ	100mΩ
Coil Voltage (Nominal)	12VDC	24VDC
Coil Voltage Range	9~14V	18~28V
Pull-in Voltage (Typical)	10.3V	19.3V
Dropout Voltage (Typical)	6.0V	16.0V
Coil Duty Cycle (Maximum)	25%	25%
Coil ON Time (Maximum)	15 Minutes	15 Minutes
Pull-in Time (Maximum)	50mS	50mS
Release Time (Maximum)	30mS	30mS
Contact Mechanical Life (Operations)	10,000	10,000
IP Rating	IP65	IP65
Threaded Stud connections	M6-1.0	M6-1.0

Dimensions

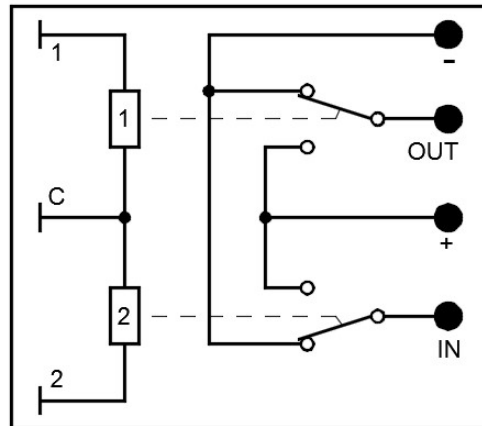


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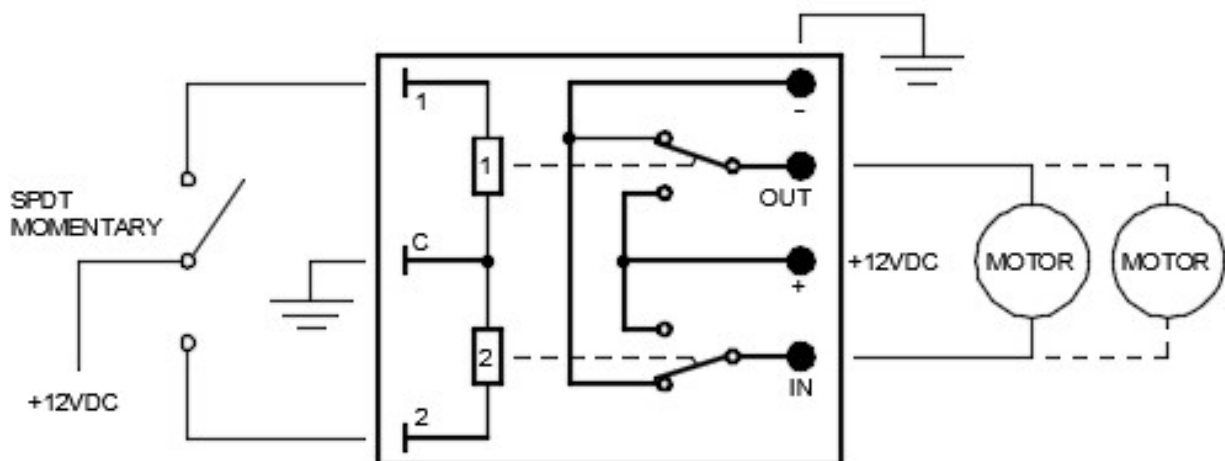
Wiring

100 Amp DC Reversing Relay



- Application example**

12VDC relay controlling a single 12VDC actuator motor (or two 12VDC actuator motors at the same time – second motor with dashed line connections)



Ordering Key

Part Number	Description
GF90-1244	100 Amp Reversing Relay with 12VDC coils
GF90-1383	100 Amp Reversing Relay with 24VDC coils

Terms of Use

Determination of product suitability for a specific application is the responsibility of the user. Due to continuing product improvements, all products are subject to change without prior notice. Concentric International reserves the right to discontinue the sale of any product at any time.