

# TROMBETTA

## PRODUCT GUIDE 2014





Trombetta is a leading worldwide manufacturer of DC power switching and power management products for mobile applications. Trombetta, founded in 1932 has manufacturing operations in Milwaukee WI, Malden MA, Tijuana MX and Wuxi, China. Trombetta's products include DC Contactors, Industrial Work Solenoids, Voltage Regulators and various Electronic Controls.

Focused on meeting their customers' design requirements, Trombetta strives to develop innovative solutions that reduce costs while increasing performance. Trombetta's rugged designs are focused on meeting the demands of mobile equipment including extreme operating temperatures, humidity, exposure to splash and spray of contaminants as well as shock and vibration.

Trombetta products have become the industry standard for Powersports, Lawn and Garden Equipment, Agriculture and Construction, Medium and Heavy Duty Trucks, RV, and Mobile Hydraulic applications. Trombetta's facilities are ISO 9001-2008 certified, demonstrating its commitment to continuous improvement of products, processes, and responsiveness to the needs of customers.





**TROMBETTA**   
DC Power Solutions for a Harsh World



*Images left to right, courtesy of: Greg Goebel, David Wright, burts, 888pablo888, Erik Gudmundson, Sa'ad Jafar.*



## DC SOLENOIDS CONTACTORS

model

nominal  
current

peak inrush  
current

coil  
voltage

protection

mounting

contacts

PAGE



114-1211-010

12 VDC

114-2411-010

24 VDC

114-1211-020

12 VDC

114-2411-020

24 VDC

225A

600A

Unsealed

Side

Copper

Silver  
Alloy

**4**



214-1231-A11

150A

12 VDC

214-1231-A61-06

75A

500A

12 VDC

214-2431-A61-06

500A

24 VDC

Unsealed

Base

Copper

Silver  
Alloy

**5**



404-1231-032

200A

12 VDC

404-2431-032

100A

24 VDC

400A

Sealed

Side

Silver  
Alloy

**6**



764-1221-020

784-1221-020

784-2421-020

784-1221-210

100A

400A

24 VDC

200A

600A

12 VDC

Unsealed

Base

Silver  
Alloy

Copper

**7**



684-1221-212

684-2421-212

684-1251-212

684-2451-212

684-1221-012

684-2421-012

684-1251-012

684-2451-012

150A

800A

12 VDC

24VDC

12 VDC

24VDC

12VDC

24VDC

12VDC

24VDC

Sealed

Base

Side

Base

Side

Copper

**8-9**



974-1215-010

974-2415-010

125A

600A

500A

12 VDC

24 VDC

Unsealed

Side

Copper

**10**

DC SOLENOIDS  
ACTUATORS

model

pull-in current

hold current

voltage

configuration

mounting

PAGE



D610-A1V12

42A

0.8A

12 VDC

Internally  
switched

Side

**11**

D513-A32V12

68A

0.9A

12 VDC

Internally  
switched

Side

**12**

D513-A33V24

36A

0.4A

24 VDC



P610-A1V12

48A

1A

12 VDC

Externally  
switched

Side

**13**

P610-A1V24

25A

0.48A

24 VDC

Flange



P612-A1V12

59.3A

0.77A

12 VDC

Externally  
switched

Side

**14**

P612-A1V24

32.9A

0.40A

24 VDC



P613-A1V12

70A

0.88A

12 VDC

Externally  
switched

Side

**15**

P613-A1V24

36A

0.48A

24 VDC



S500-A6

Actuator Control Module – Electro-mechanical

S500-A60

Actuator Control Module – Solid State

**16**

Designed for high current applications, the Trombetta 'Bear' range of solenoid contactors represent excellent value. The combination of high impact plastic and zinc steel housing provides a robust device, compact in size and easy to install. Available with either 12 or 24VDC coils and copper or long life silver alloy the 'Bear' is ideal for battery management, emergency starting, load switching and a myriad of demanding transport applications.



## Specifications

### Electrical

**Contact Rating:** 225 Amps nominal\*  
600 Amps peak inrush\*  
**Contact State:** Normally Open (N/O)  
**Contact Life:** Copper – 25K cycles  
Silver Alloy – 50K cycles  
**Coil Voltage:** 12VDC or 24VDC\*  
**Coil Duty Cycle:** 100% @25°C\*  
**Insulation:** Ungrounded

### Mechanical

**Coil terminals:** 10-32 Studs  
**Contact Terminals:** 5/16-24 Studs

### Environmental

**Operating Temp:** -40°C to +85°C  
**Sealing:** Unsealed

### Available Options

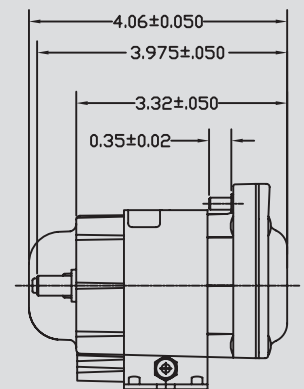
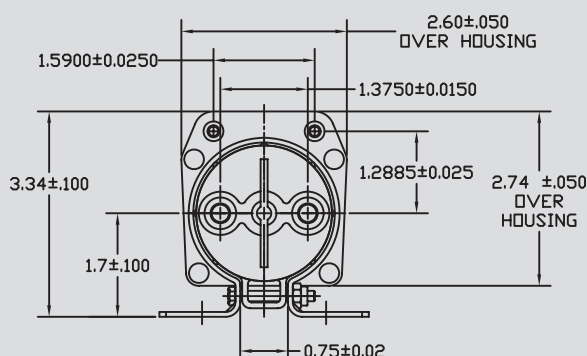
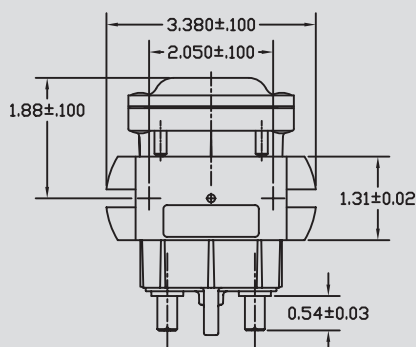
Curved mounting bracket; Intermittent rated coils; 36 and 48VDC coils.

\* detailed information available upon request

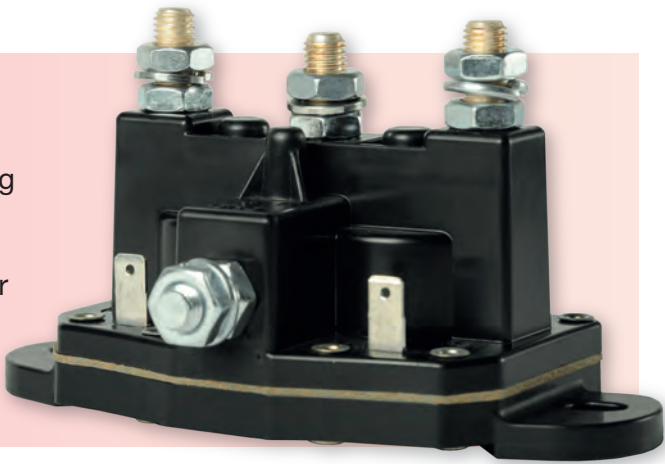
## Models

Part No.	Voltage	Rating	Coil Duty	Grounding	Contacts	Bracket
114-1211-010	12VDC	225 Amps	Continuous	Ungrounded	Copper	Flat On Side
114-2411-010	24VDC	225 Amps	Continuous	Ungrounded	Copper	Flat On Side
114-1211-020	12VDC	225 Amps	Continuous	Ungrounded	Silver Alloy	Flat On Side
114-2411-020	24VDC	225 Amps	Continuous	Ungrounded	Silver Alloy	Flat On Side

## Dimensions



Trombetta’s Reversing Polarity (RP) DC contactors provide a cost effective and simple solution for reversing direction of permanent magnet DC motors. By integrating two DC Contactors into a single unit, Trombetta has provided an efficient means for manufacturers and installers to reduce assembly costs. The RP is perfect for any application that requires reversing motion, such as winching, lifting, sliding and levelling systems in a multitude of transport applications.



Specifications

Electrical

**Contact Rating:** 75 Amps for 5 minutes\*  
150 Amps peak inrush (copper)\*  
500 Amps peak inrush (silver)\*  
**Contact State:** Normally Open (N/O)  
**Contact Life:** Copper – 10K cycles  
Silver Alloy – 5K cycles  
**Coil Voltage:** 12VDC or 24VDC\*  
**Coil Duty Cycle:** 20% @25°C\*  
**Insulation:** Ungrounded

Mechanical

**Coil terminals:** ¼” (6.35mm) QC Terminals  
**Contact Terminals:** 5/16-24 Studs

Environmental

**Operating Temp:** -40°C to +60°C  
**Sealing:** Unsealed

Available Options

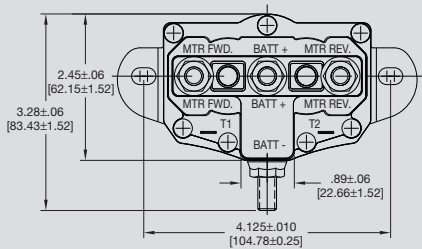
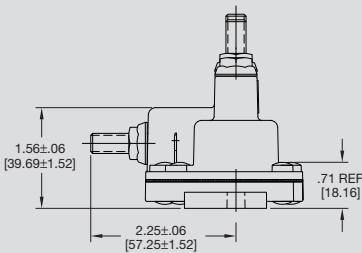
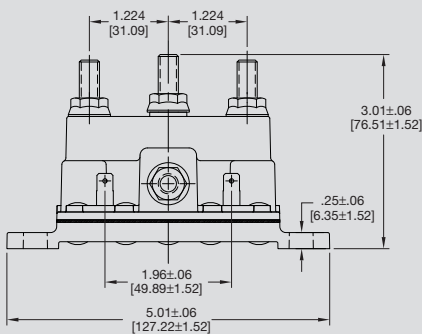
Hose clamp mounting bracket; Silver plated contact studs.

\* detailed information available upon request

Models

Part No.	Voltage	Rating	Coil Duty	Grounding	Contacts	Bracket
214-1231-A11	12VDC	75 Amps	Intermittent	Ungrounded	Copper	Moulded Base
214-1231-A61-06	12VDC	75 Amps	Intermittent	Ungrounded	Silver Alloy	Moulded Base
214-2431-A61-06	24VDC	75 Amps	Intermittent	Ungrounded	Silver Alloy	Moulded Base

Dimensions



Dimensions in Brackets [ ] are metric

Engineered to withstand high temperatures, excessive dust, liquid and vibration the Defender contactor is an ideal choice for arduous environmental conditions. It is designed to carry currents as low as 350 milliamps and as high as 100 amps. With coil Transient Volt Suppression (TVS), the Defender protects sensitive components in your system. Perfect for off road, mission critical, earth moving, mining and agricultural applications, the Defender is the ultimate performer.



## Specifications

### Electrical

**Contact Rating:** 200 Amps resistive @ 12VDC  
100 Amps resistive @ 24VDC  
100 Amps inductive  
400 Amps peak inrush  
**Contact State:** Normally Open (N/O)  
**Contact Life:** 20K cycles  
**Coil Voltage:** 12VDC or 24VDC  
**Coil Duty Cycle:** 100% @25°C  
**Insulation:** Ungrounded

### Mechanical

**Coil terminals:** Deutsch-2Pin Connector DT06-25  
**Contact Terminals:** 5/16-24 Studs

### Environmental

**Operating Temp:** -40°C to +85°C  
**Sealing:** Sealed (IP Rating Pending)

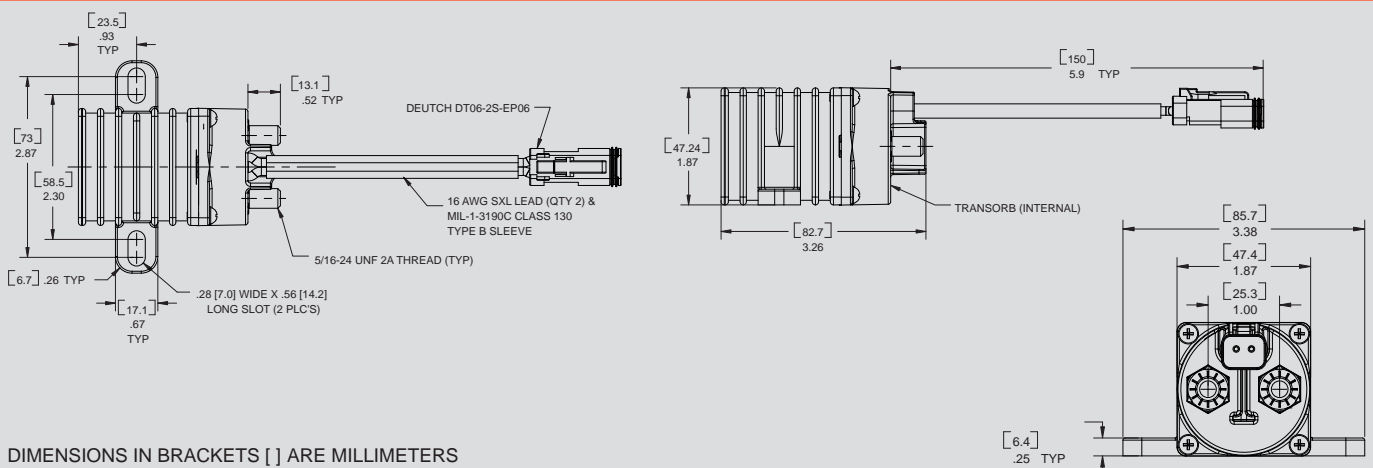
### Available Options

Alternate lead connectors; Silver plated contact studs.

## Models

Part No.	Voltage	Rating	Coil Duty	Grounding	Contacts	Bracket
404-1231-032	12VDC	200 Amps	Continuous	Ungrounded	Silver Alloy	Integrally cast
404-2431-032	24VDC	100 Amps	Continuous	Ungrounded	Silver Alloy	Integrally cast

## Dimensions





The High Performance (HP) range of contactors from Trombetta feature durable, high temperature resistant plastic housings suitable for a variety of environmental conditions. Designed with efficiency, longevity and reliability in mind, the HP range is a cost effective solution for a myriad of applications including small engine starting applications, driving electric motors, battery management, etc. Ideal for golf carts, ride-on mowers, UTV's, stationary engines and gen-sets amongst others.



## Specifications

### Electrical

**Contact Rating:** 100 Amps nominal\*  
200 Amps intermittent\*  
300/400 Amps peak inrush\*

**Contact State:** Normally Open (N/O)

**Contact Life:** Copper – 12K cycles  
Silver Alloy – 50K cycles

**Coil Voltage:** 12VDC or 24VDC\*

**Coil Duty Cycle:** Continuous – 100% @25°C\*  
Intermittent – 15% @ 25°C\*

**Insulation:** Available in grounded or ungrounded variants.

### Mechanical

**Coil terminals:** 10-32 Studs  
**Contact Terminals:** 5/16-24 Studs

### Environmental

**Operating Temp:** -40°C to +60°C  
**Sealing:** Unsealed

### Available Options

Alternate coil terminal styles; Alternate contact terminal sizes; Dust and/or liquid sealing; Various mounting brackets; Various coil voltages.

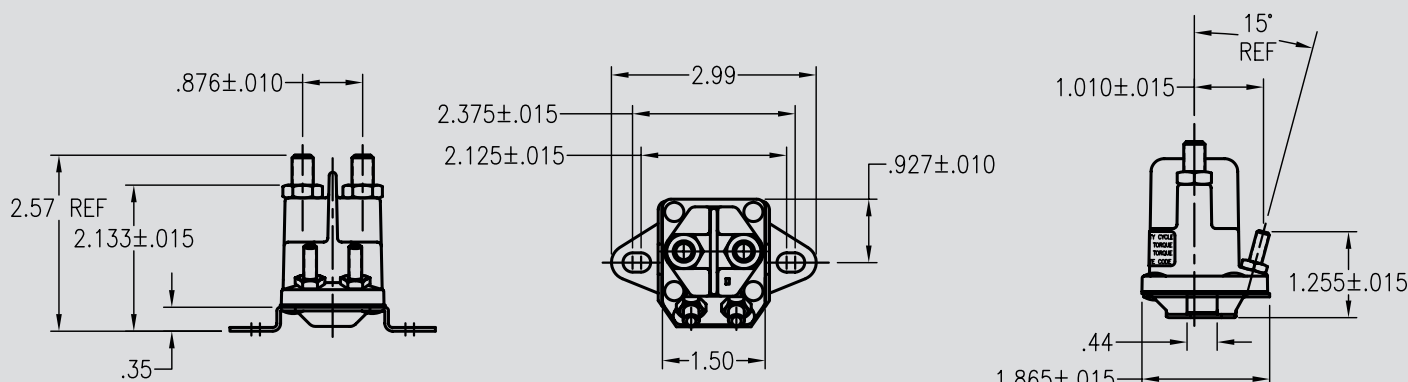
\* detailed information available upon request

## Models

Part No.	Voltage	Rating	Coil Duty	Grounding	Contacts	Bracket
764-1221-020*	12VDC	100 Amps	Continuous	Ungrounded	Silver Alloy	Flat On Base
784-1221-210	12VDC	200 Amps	Intermittent	Ungrounded	Copper	Flat On Base
784-1221-020	12VDC	100 Amps	Continuous	Ungrounded	Silver Alloy	Flat On Base
784-2421-020	24VDC	100 Amps	Continuous	Ungrounded	Silver Alloy	Flat On Base

\* 6.35mm push-on terminals

## Dimensions



The Trombetta PowerSeal range features an environmentally sealed housing to IEC 60529, IP66 and IP67 standard. It is the first contactor designed specifically for electric vehicles and other applications where environmental protection is a must. The sealed design is the core of the construction and is optimized for high performance at lower cost. Constructed from high impact plastic with zinc plated steel frame, the PowerSeal range is designed for high performance, durability and longevity.

The compact design makes the PowerSeal range perfect for installations where space is at a premium. Two standard mounting configurations are available which allow for either vertical or horizontal fixing with alternate mounting bracket designs available upon request. The PowerSeal range is ideal for a myriad of applications including electric forklifts and vehicles, pallet jacks, scissor lifts, floor scrubbers, golf carts and utility vehicles.



## Specifications

### Electrical

<b>Contact Rating:</b>	150 Amps nominal* 800 Amps peak inrush*
<b>Contact State:</b>	Normally Open (N/O)
<b>Contact Life:</b>	100K cycles
<b>Coil Voltage:</b>	12VDC or 24VDC*
<b>Coil Duty Cycle:</b>	100% @25°C (continuous duty models) 25% @25°C (intermittent duty models)
<b>Insulation:</b>	Ungrounded

### Mechanical

<b>Coil terminals:</b>	10-32 Studs
<b>Contact Terminals:</b>	5/16-24 Studs

### Environmental

<b>Operating Temp:</b>	-40°C to +65°C
<b>Sealing:</b>	IP66 / IP67

### Available Options

Various mounting bracket styles; Intermittent rated coils; Various coil voltages; Alternate coil terminals; Grounded coil circuit; Silver Alloy Contacts.

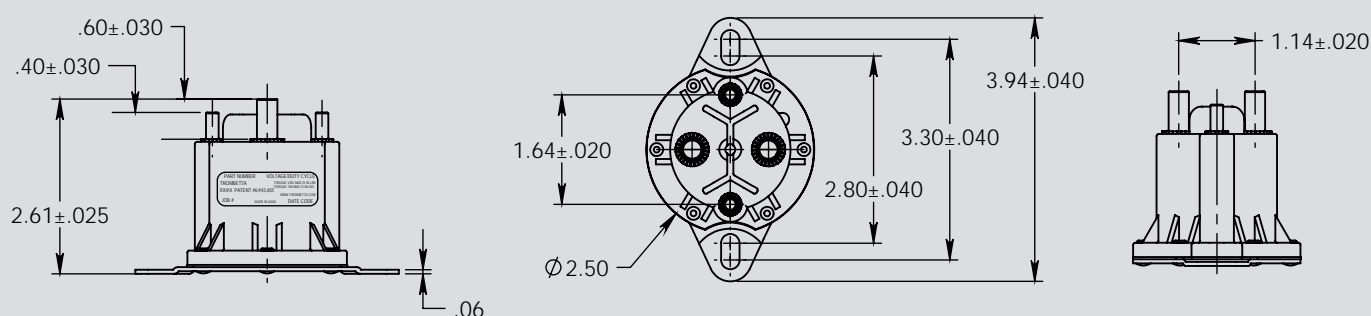
\* detailed information available upon request

## Models

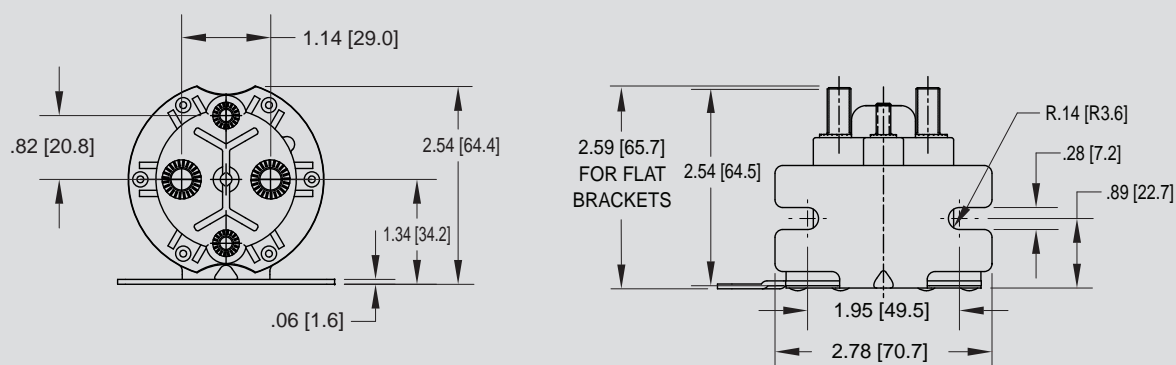
Part No.	Voltage	Rating	Coil Duty	Grounding	Contacts	Bracket
684-1221-212	12VDC	150 Amps	Intermittent	Ungrounded	Copper	Flat On Base
684-2421-212	24VDC	150 Amps	Intermittent	Ungrounded	Copper	Flat On Base
684-1251-212	12VDC	150 Amps	Intermittent	Ungrounded	Copper	Flat On Side
684-2451-212	24VDC	150 Amps	Intermittent	Ungrounded	Copper	Flat On Side
684-1221-012	12VDC	150 Amps	Continuous	Ungrounded	Copper	Flat On Base
684-2421-012	24VDC	150 Amps	Continuous	Ungrounded	Copper	Flat On Base
684-1251-012	12VDC	150 Amps	Continuous	Ungrounded	Copper	Flat On Side
684-2451-012	24VDC	150 Amps	Continuous	Ungrounded	Copper	Flat On Side

## Dimensions

### Flat on BASE bracket

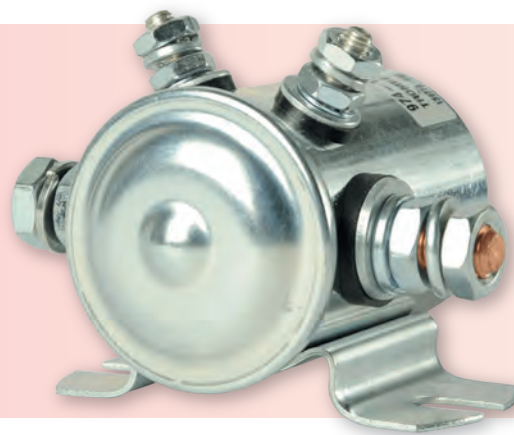


### Flat on SIDE bracket



DIMENSIONS IN BRACKETS [ ] ARE MILLIMETERS

The traditional metal contactor has been redesigned by Trombetta to provide a high performance, electrically efficient and extremely robust device for demanding applications. The Metal DC contactor range features high current carrying capacity in a compact metal housing. The universal mounting design makes it the ideal replacement for applications including mining, construction and agricultural equipment, military and emergency vehicles, buses, coaches, boats – anywhere a heavy duty contactor is required.



## Specifications

### Electrical

**Contact Rating:** 125 Amps nominal\*  
600/500 Amps peak inrush\*  
12/24VDC\*  
**Contact State:** Normally Open (N/O)  
**Contact Life:** 50K cycles  
**Coil Voltage:** 12VDC or 24VDC\*  
**Coil Duty Cycle:** 100% @25°C\*  
**Insulation:** Ungrounded

### Mechanical

**Coil terminals:** 10-32 Studs  
**Contact Terminals:** 5/16-24 Studs

### Environmental

**Operating Temp:** -40°C to +60°C  
**Sealing:** Unsealed

### Available Options

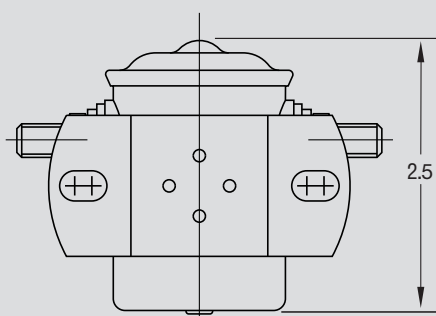
Various mounting bracket styles; Intermittent rated coils; Various coil voltages; Grounded coil circuit.

\* detailed information available upon request

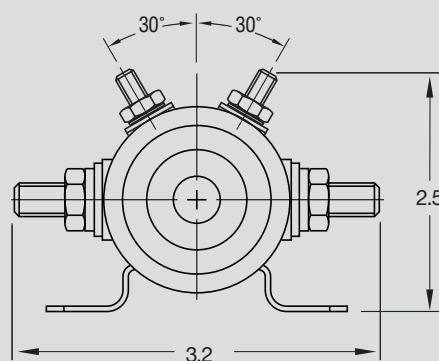
## Models

Part No.	Voltage	Rating	Coil Duty	Grounding	Contacts	Bracket
974-1215-010	12VDC	125 Amps	Continuous	Ungrounded	Copper	Flat On Side
974-2415-010	24VDC	125 Amps	Continuous	Ungrounded	Copper	Flat On Side

## Dimensions



Flat mount, closed slots.  
Other options available.





The D610 range of solenoid actuators offer a proven and reliable electromechanical solution for pull and hold functions. An integral changeover contact switches the pull coil to the hold coil thus eliminating the need for additional relays or controllers. The dual wound coil design provides high energy pulling performance while maintaining a low powered continuous holding operation. Ideal for damper/flap control, engine shutdown/throttling and general actuation requirements.



## Specifications

### Properties

**Stroke Length:** 25.4mm (1")  
**Net Pull Force:** 62.3 Newtons (14lbf)  
**Net Hold Force:** 120 Newtons (27lbf)  
**Weight:** 0.77 kg (1.7lbs)

### Mechanical

**Termination:** 6-32 UNC studs  
**Shaft thread:** 1/4-28 UNF male  
**Shaft length:** 25.4mm (1")

### Electrical

**Pull Current:** 42 Amps @ 12VDC  
**Hold Current:** 0.8 Amps @ 12VDC  
**Design Voltage:** 12VDC (24VDC optional)  
**Duty Cycle:** 100% of rated voltage @25°C  
**Insulation:** Ungrounded

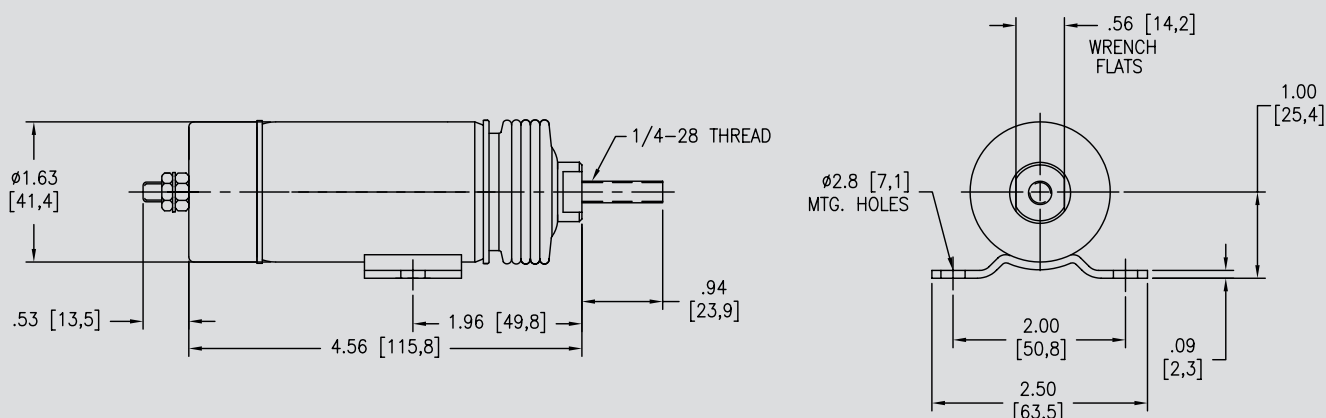
### Available Options

**Return springs:** Light and heavy duty  
**Mounting brackets:** Flange mounting model

## Models

Model	Voltage	Configuration	Light Spring P/N	Heavy Spring P/N	Mounting
D610-A1V12	12VDC	Internally switched	F09514	F09513	Side

## Dimensions



The D513 range of solenoid actuators offer a proven and reliable electromechanical solution for pull and hold functions. An integral changeover contact switches the pull coil to the hold coil thus eliminating the need for additional relays or controllers. The dual wound coil design provides high energy pulling performance while maintaining a low powered continuous holding operation. Ideal for damper/flap control, engine shutdown/throttling and general actuation requirements.



## Specifications

### Properties

**Stroke Length:** 38.1mm (1.5")  
**Net Pull Force:** 61.8 Newtons (13.9lbf)  
**Net Hold Force:** 164 Newtons (37lbf)  
**Weight:** 1.18 kg (2.6lbs)

### Mechanical

**Termination:** 150mm (6") flying leads  
**Shaft thread:** 1/4-28 UNF male  
**Shaft length:** 25.4mm (1")

### Electrical

**Pull Current:** 68 Amps @ 12VDC  
 36 Amps @ 24VDC  
**Hold Current** 0.9 Amps @ 12VDC  
 0.4 Amps @ 24VDC  
**Design Voltage:** 12VDC or 24VDC  
**Duty Cycle:** 100% of rated voltage @25°C  
**Insulation:** Ungrounded

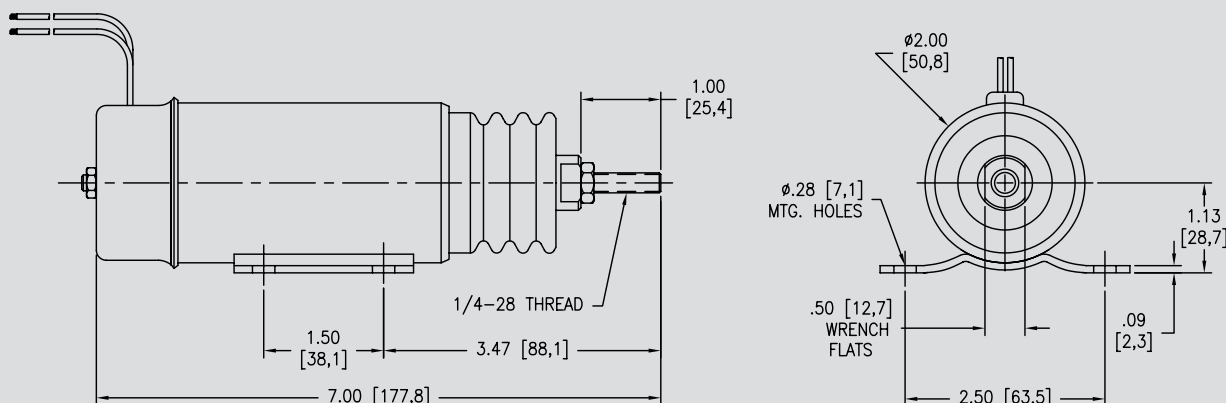
### Available Options

**Return springs:** Light duty

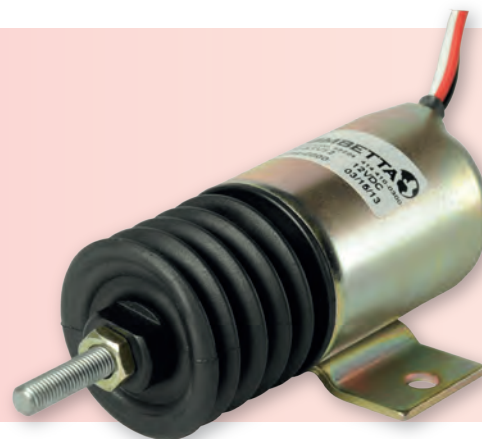
## Models

Model	Voltage	Configuration	Light Spring P/N	Heavy Spring P/N	Mounting
D513-A32V12	12VDC	Internally switched	F10124	None	Side
D513-A33V24	24VDC	Internally switched	F10124	None	Side

## Dimensions



The P610 range of solenoid actuators are a dual wound design with independent control coils for both pull and hold functions. The advantage of separately controlled coils is that, when wired correctly, there is less risk of pull-in coil burnout as there is with dependently switched modules. The P610 range offers high pulling power in a compact package. Ideal for a vast range of applications in both stationary and mobile plant and equipment.



## Specifications

### Properties

**Stroke Length:** 25.4mm (1")  
**Net Pull Force:** 67 Newtons (15lbf)  
**Net Hold Force:** 102 Newtons (23lbf)  
**Weight:** 0.6 kg (1.3lbs)

### Mechanical

**Termination:** 300mm (12") flying leads  
**Shaft thread:** 1/4-28 UNF male  
**Shaft length:** 25.4mm (1")

### Electrical

**Pull Current:** 48 Amps @ 12VDC  
 25 Amps @ 24VDC  
**Hold Current** 1 Amp @ 12VDC  
 0.48 Amps @ 24VDC  
**Design Voltage:** 12VDC (24VDC optional)  
**Duty Cycle:** 100% of rated voltage @25°C  
**Insulation:** Ungrounded

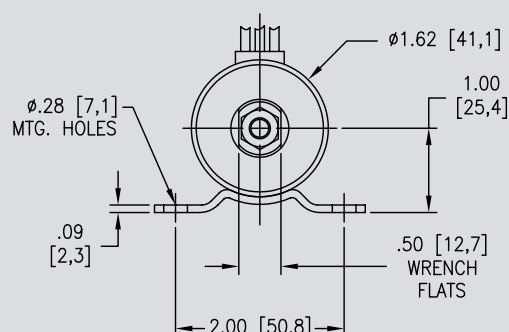
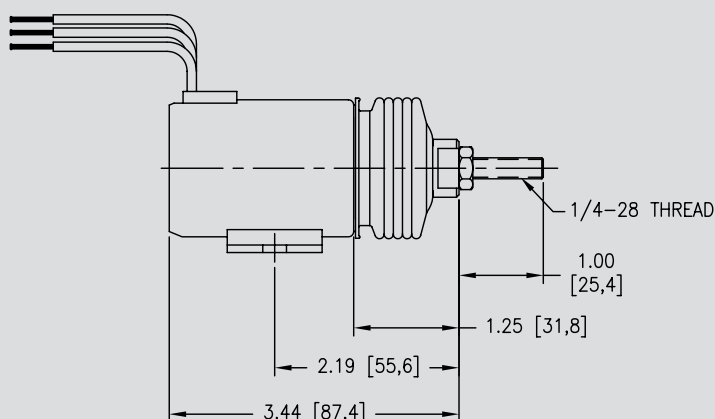
### Available Options

**Return springs:** Light and heavy duty  
**Mounting brackets:** Flange mounting models  
**Reverse actuation:** Push actuator models

## Models

Model	Voltage	Configuration	Light Spring P/N	Heavy Spring P/N	Mounting
P610-A1V12	12VDC	Externally switched	F09514	F09513	Side
P610-A1V24	24VDC	Externally switched	F09514	F09513	Side

## Dimensions



The P612 range of solenoid actuators are a dual wound design with independent control coils for both pull and hold functions. The advantage of separately controlled coils is that, when wired correctly, there is less risk of pull-in coil burnout as there is with dependently switched modules. The P612 range offers high pulling power in a compact package. Ideal for a vast range of applications in both stationary and mobile plant and equipment.



## Specifications

### Properties

**Stroke Length:** 25.4mm (1")  
**Net Pull Force:** 102 Newtons (23lbf)  
**Net Hold Force:** 191 Newtons (43lbf)  
**Weight:** 0.77 kg (1.7lbs)

### Mechanical

**Termination:** 300mm (12") flying leads  
**Shaft thread:** 1/4-28 UNF male  
**Shaft length:** 25.4mm (1")

### Electrical

**Pull Current:** 60 Amps @ 12VDC  
 33 Amps @ 24VDC  
**Hold Current** 0.9 Amps @ 12VDC  
 0.5 Amps @ 24VDC  
**Design Voltage:** 12VDC or 24VDC  
**Duty Cycle:** 100% of rated voltage @25°C  
**Insulation:** Ungrounded

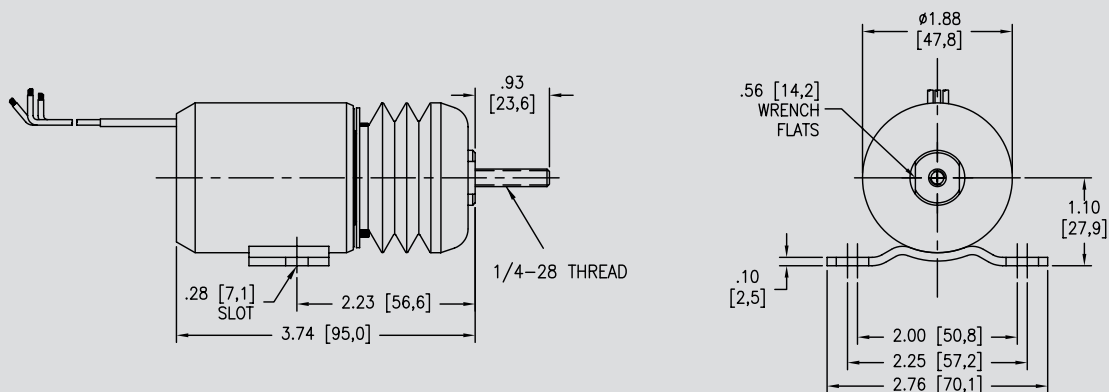
### Available Options

**Return springs:** Light and heavy duty  
**Mounting brackets:** Flange mounting model

## Models

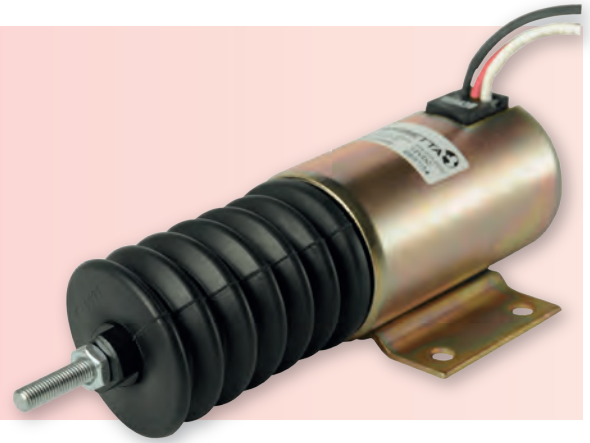
Model	Voltage	Configuration	Light Spring P/N	Heavy Spring P/N	Mounting
P612-A1V12	12VDC	Externally switched	E07358	F10399	Side
P612-A1V24	24VDC	Externally switched	E07358	F10399	Side

## Dimensions





The P613 range of solenoid actuators are a dual wound design with independent control coils for both pull and hold functions. The advantage of separately controlled coils is that, when wired correctly, there is less risk of pull-in coil burnout as there is with dependently switched modules. The P613 range offers high pulling power in a compact package. Ideal for a vast range of applications in both stationary and mobile plant and equipment.



## Specifications

### Properties

**Stroke Length:** 38.1mm (1.5")  
**Net Pull Force:** 94 Newtons (21lbf)  
**Net Hold Force:** 178 Newtons (40lbf)  
**Weight:** 1.23 kg (2.7lbs)

### Mechanical

**Termination:** 300mm (12") flying leads  
**Shaft thread:** 1/4-28 UNF male  
**Shaft length:** 25.4mm (1")

### Electrical

**Pull Current:** 70 Amps @ 12VDC  
 36 Amps @ 24VDC  
**Hold Current** 0.88 Amp @ 12VDC  
 0.48 Amps @ 24VDC  
**Design Voltage:** 12VDC or 24VDC  
**Duty Cycle:** 100% of rated voltage @25°C  
**Insulation:** Ungrounded

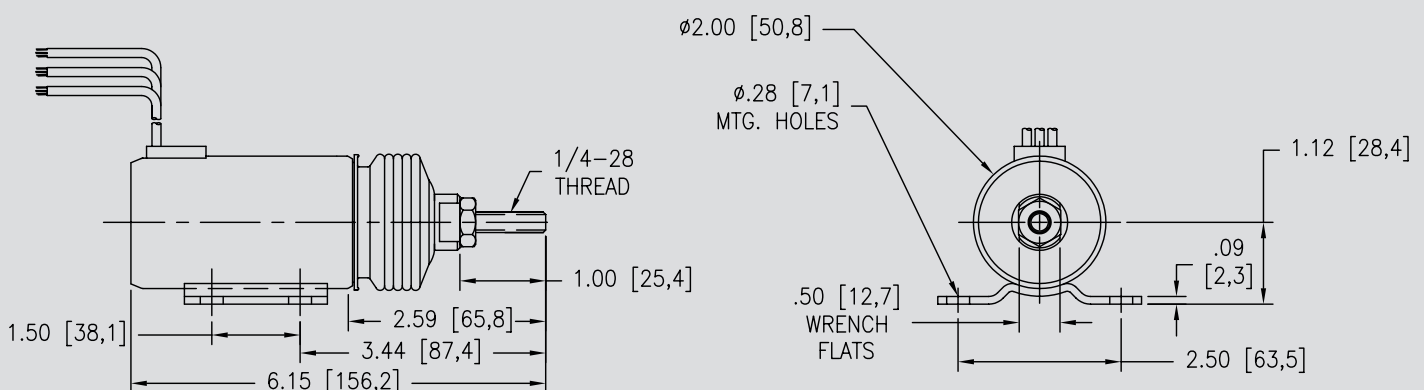
### Available Options

**Return springs:** Light duty  
**Mounting brackets:** Flange mounting models  
**Reverse actuation:** Push actuator models

## Models

Model	Voltage	Configuration	Light Spring P/N	Heavy Spring P/N	Mounting
P613-A1V12	12VDC	Externally switched	F10124	None	Side
P613-A1V24	24VDC	Externally switched	F10124	None	Side

## Dimensions



The S500 range of Voltage Control Over-Energizer (VCOE) are Trombetta's solution for precise and efficient control of dual winding solenoid actuators. These special modules are designed to enhance performance by increasing force capability and reducing operating temperature. They regulate the electrical power applied to the coils during pull and hold operation to optimize the performance of the solenoid. Available in both solid state and electro-mechanical control (relay) models.



## Specifications

### S500-A6 Electro-Mechanical

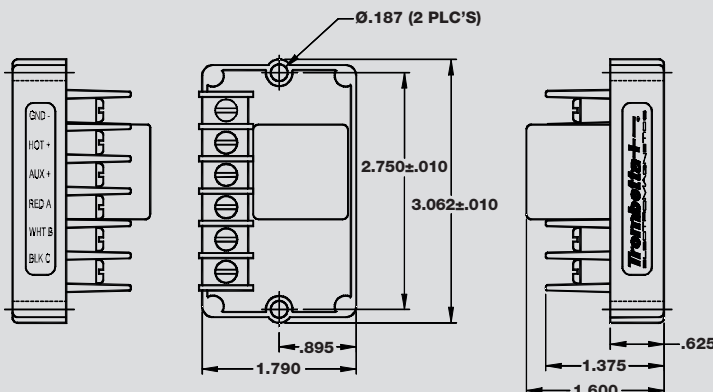
### S500-A60 Solid State

<b>Operating Voltage:</b>	10-32VDC	8.5-32VDC (see note 2)
<b>Max Load Current:</b>	80 Amps @ 12VDC (see note 1, for 24VDC) 0.48 Amps @ 24VDC	80 Amps @ 12VDC 40 Amps @ 24VDC
<b>Max Load Power:</b>	1000 Watts (see note 1)	1000 Watts
<b>Actuation Time:</b>	Approx 0.5 seconds	Approx 0.5 seconds
<b>Aux Input Voltage:</b>	8.2VDC minimum	8.2VDC minimum
<b>Reverse Polarity protection:</b>	Yes	Yes
<b>Insulation:</b>	Ungrounded	Ungrounded
<b>Termination:</b>	Screw terminals	Screw terminals

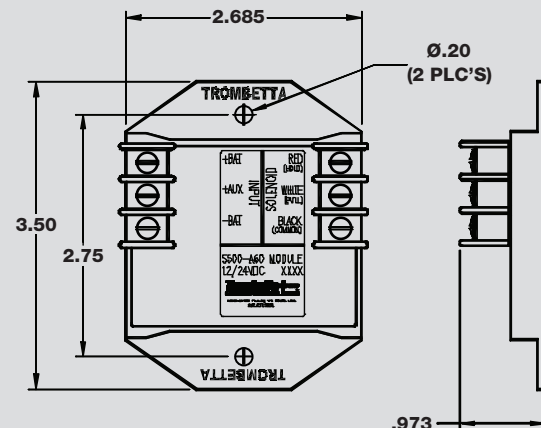
1. An external contactor must be used for operation of 24VDC coils
2. Minimum voltage required to ensure complete pull-in activation

## Dimensions

S500-A6



S500-A60



Amelec Australia Pty Ltd warrants all Trombetta products against defects in factory workmanship and materials for a period of 12 months from final point of sale providing the item in question does not exceed the manufacture date by more than 2 (two) years. Specific exclusions of this warranty apply where the item in question has been misapplied or used for a purpose for which it is not designed or intended; or altered in any way that would be detrimental to the performance or life of the product; or opened or tampered with by an unauthorised party; or contaminated by oil, water, grease or other substances; or subjected to misuse, negligence, excessive vibration or mechanical abuse; or damaged as a result of incorrect connection or voltage. On any part or product found to be defective after examination by Amelec Australia Pty Ltd or their authorised agent, Amelec Australia will only repair or replace the merchandise through the original selling dealer. Amelec Australia assumes no responsibility for diagnosis, removal and/or installation labour, loss of equipment use, loss of time, inconvenience or any other subsequent expenses including freight costs. Save and except for the express warranty set out above and to the maximum extent permitted by law, all conditions and warranties which may at any time be implied by the common law, Trade Practices Act, Fair Trading Act or any other State or Federal Act are excluded. To the extent that these cannot be excluded and where the law permits, Amelec Australia liability in respect of any such condition or warranty shall be limited at the option of Amelec Australia to the repair or the replacement of the goods or the supply of equivalent goods or refunding the cost of the goods. Amelec Australia Pty Ltd A.B.N. 38 009 386 216

©2014 - Amelec Australia Pty Ltd. ABN 38 009 386 216.

*All rights reserved. This catalogue may not be reproduced in full or part, by any means, without the express written permission of the copyright owners.*

*Disclaimer: E & O.E. - the information and specifications detailed in this catalogue were deemed to be accurate at the time of printing. Amelec Australia Pty Ltd reserves the right, subject to Australian law, at its discretion and without notice, to change the information and specifications contained within.*



16 Parkinson Lane, O'Connor  
WA 6163 Australia

Phone +61 8 9331 3100

Fax +61 8 9331 5150

Email [mail@amelec.com.au](mailto:mail@amelec.com.au)

Web [www.amelec.com.au](http://www.amelec.com.au)