

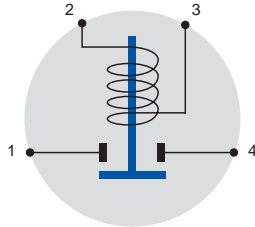
# H solenoids & relays

## H2 PVC COATED SOLENOIDS WITH STEEL HOUSINGS

*Weatherproof: Housing is completely PVC coated.*

### Continuous Duty

**Insulated SPST, Normally Off (except 24401-04). One circuit: Off - On. Bracket mounting holes 5/16" x 19/32" (7.9 x 15.1) on 2 13/64" centers (56.0mm).**



**36V**

**24135**

Continuous Duty: 85A.

Without PVC coating: see 24080

**24135-01 UL listed**



Continuous Duty: 65A at 36V DC

Intermittent Duty: 120A make, 65A break. 10 sec On, 30 min Off.

Without PVC coating: see 24080-01

**24V**

**24063-08 UL listed ★**



Continuous Duty: 65A at 24V DC

Intermittent Duty: 120A make, 65A break. 10 sec On, 30 min Off.

Without PVC coating and UL rating: see 24063

**12V**

**24117 ★**

Continuous Duty: 85A.

Without PVC coating: see 24059

**24117-01 UL listed BP ★**



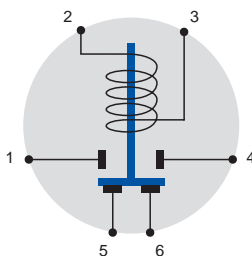
Continuous Duty: 65A at 12V DC

Intermittent Duty: 750A make, 100A break. 10 sec On, 30 min Off.

Without PVC coating: see 24059-08

**12V SPDT**

**24401-04**



Normally Closed contacts 35A, Normally Open contacts 85A.

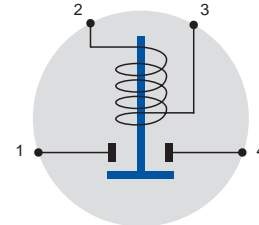
Without PVC coating: see 24401

★ Rapid ship item. BP Available in retail clamshell pack. ★ Minimum order quantity may apply.

### Intermittent Duty

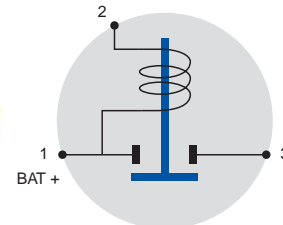
**SPSAT, normally Off, 750A make, 100A break 750A make, 100A break. 10 sec On, 20 min Off. Bracket mounting holes 5/16 x 11," 2 13/64" on centers (7.9 x 15.1, 56.2mm). Contact terminals 5/16" -24 thread.**

**24076, insulated ★**



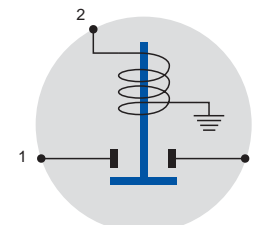
Without PVC coating: see 24047

**24077, insulated**



Without PVC coating: see 24076

**24071, grounded**



Without PVC coating: see 24037

## solenoid info

See Section H6, and visit our website for an interactive training session on Solenoids.

# H solenoids & relays

## H5 RELAYS

### Relay Sockets

*Accepts Cole Hersee relays and standard ISO relays. Modular – sockets dovetail together. Accepts standard quick-connect terminals. Easy mount bracket. Constructed of rugged glass-filled polyamide. Temperature range -40F to 85C.*

#### 99025 High Power Socket



For use with Cole Hersee High Power Relays. Form A (SPST)  
Use with Tyco (AMP) terminals 280756 or 280755 (consult terminal manufacturers for full specs).

#### 99026 Heavy Duty Socket



For use with Cole Hersee Heavy Duty Relays. Form A (SPST) or Form C (SPDT).

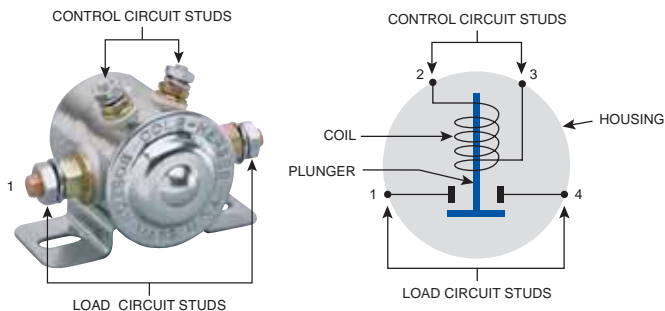
Use with Tyco (AMP) terminals 42281 or Ark-Les 3000H112A series (consult terminal manufacturers for full specs).

# solenoids & relays

## H6 INFORMATION ON SOLENOIDS

Solenoids are relays which are commonly used to remotely switch a heavier current. By using a solenoid, the amount of heavy wiring needed to power the load is reduced, since the control circuit mounted inside the cab typically utilizes a smaller wire gauge.

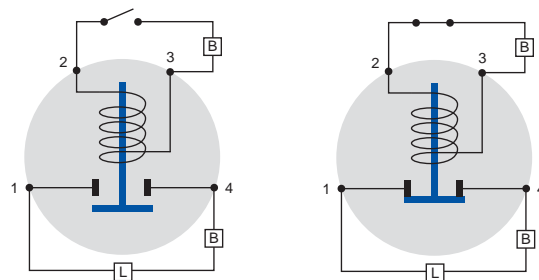
Solenoids are commonly used to control starter and winch motors, and they have many other uses on vehicles of all kinds.



A typical 4-stud solenoid

4-stud solenoid diagram

The diagram shows a magnetic coil surrounding a contact plunger. Before energization, the plunger is not electrically connected to the control circuit. When the control circuit is energized, the electromagnetic force induced in the coil attracts the plunger, which moves to close the load circuit. When the control circuit is de-energized, the spring-loaded plunger returns to its normal state and the load circuit is broken. In continuous duty applications, energization of the coil causes heating, therefore the solenoid housing will become warm even in normal operation.



Solenoid in its normal state  
Control circuit and load circuit open

Energized solenoid  
Control circuit and load circuit closed

For more information on solenoids, visit the interactive training section of the Cole Hersee website:  
[www.colehersee.com](http://www.colehersee.com) > Resource Center > Training.

★ Rapid ship item. BP Available in retail clamshell pack. ★ Minimum order quantity may apply.