

# SHALCO

## DC HIGH VOLTAGE RELAY

### "200" SERIES



#### Features:

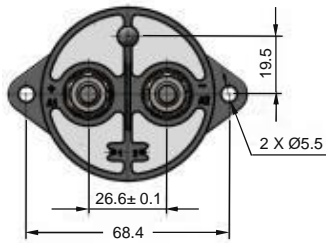
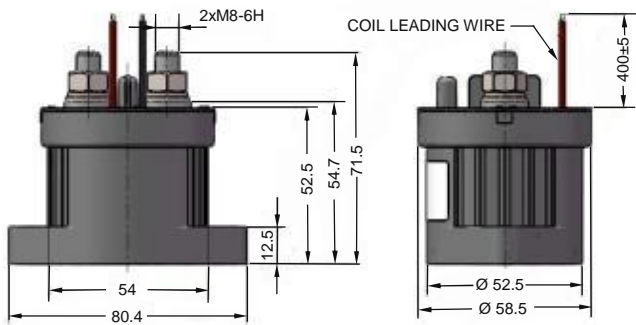
- ◆ The Contact Rating: 12~900VDC
- ◆ Switching Current: 200A
- ◆ Contact and Coil Instantaneous Voltage: Up to 3KV
- ◆ Built in Energy Saving Coil to Reduce Coil Holding Power.
- ◆ Permanent Magnet Transverse Magnetic Field, Realization HV DC cut-off.
- ◆ Small Size, Light Weight.

P.O. Box 1089, 308 Components Drive, Smithfield, North Carolina 27577

Phone: 800-876-3135 Fax: 919-934-3298

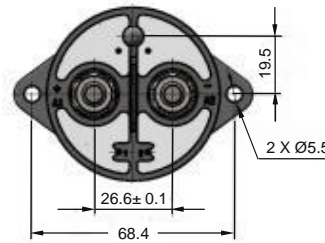
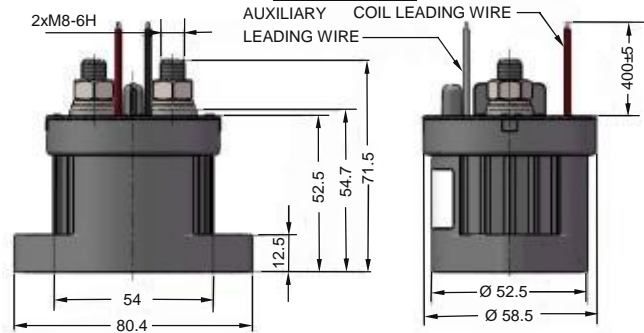
E-mail: [Shallco@shallco.com](mailto:Shallco@shallco.com) Website: [www.shallco.com](http://www.shallco.com)

## Outline Drawing: HV 200A□



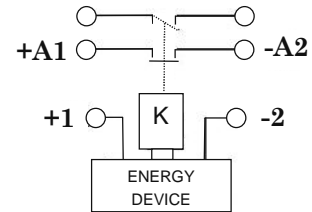
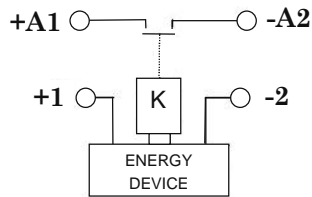
SIZE (mm)	DEVIATION (mm)
0~30	±0.3
30~60	±0.5
>60	±1

## HV 200H□



SIZE (mm)	DEVIATION (mm)
0~30	±0.3
30~60	±0.5
>60	±1

## Circuit Diagram



## Performance Parameters:

Parameter		Unit	Value
Main contact form		/	Normally open
Rated operating voltage		VDC	12~900
Rated control capacity		/	200A 450V (DC-1)
Rated short-time withstand current and duration		/	300A 900s
		/	400A 200s
Contact voltage drop		mV	≤80@200A
Close (includes bounce)		ms	25 Max.
Release time		ms	12 Max.
Contact bounce time		ms	6 Max.
Load life		times	See load life diagram
Mechanical life		times	1,000,000
Auxiliary contact	Contact form	/	Normally open
	Rated contact voltage	/	2A/24VDC、3A/125VAC
	Min contact load	/	100mA/8V
Insulation resistance		MΩ	100 (at 500VDC)
Dielectric withstanding voltage		VAC	2500VAC 50 Hz/60 Hz (1 minute) 600VAC 50Hz/60Hz (1 minute) (auxiliary contact)
Operating temperature		°C	-40~+85
Operating humidity		/	5%~90%
Shock, 11ms, 1/2 Sine wave, peak value		G	20
Vibration, Sine wave, 80~2000Hz, peak value		G	20
Rated working form		/	Uninterrupted
Weight (Approx.)		g	380
Installing mode		/	Any

### Coil Parameters:

Coil operating voltage (VDC)	12	24
Coil Voltage. (Max) (VDC)	36	36
Inrush current (Max.) (A)	3.8	3.8
Inrush time (Max.) (ms)	110	110
Holding current (Avg.) A.	0.27	0.13
Max pull-in voltage (VDC)	9	9
Min drop-out voltage (VDC)	6	6

### Estimated Make & Break Power Switching Ratings

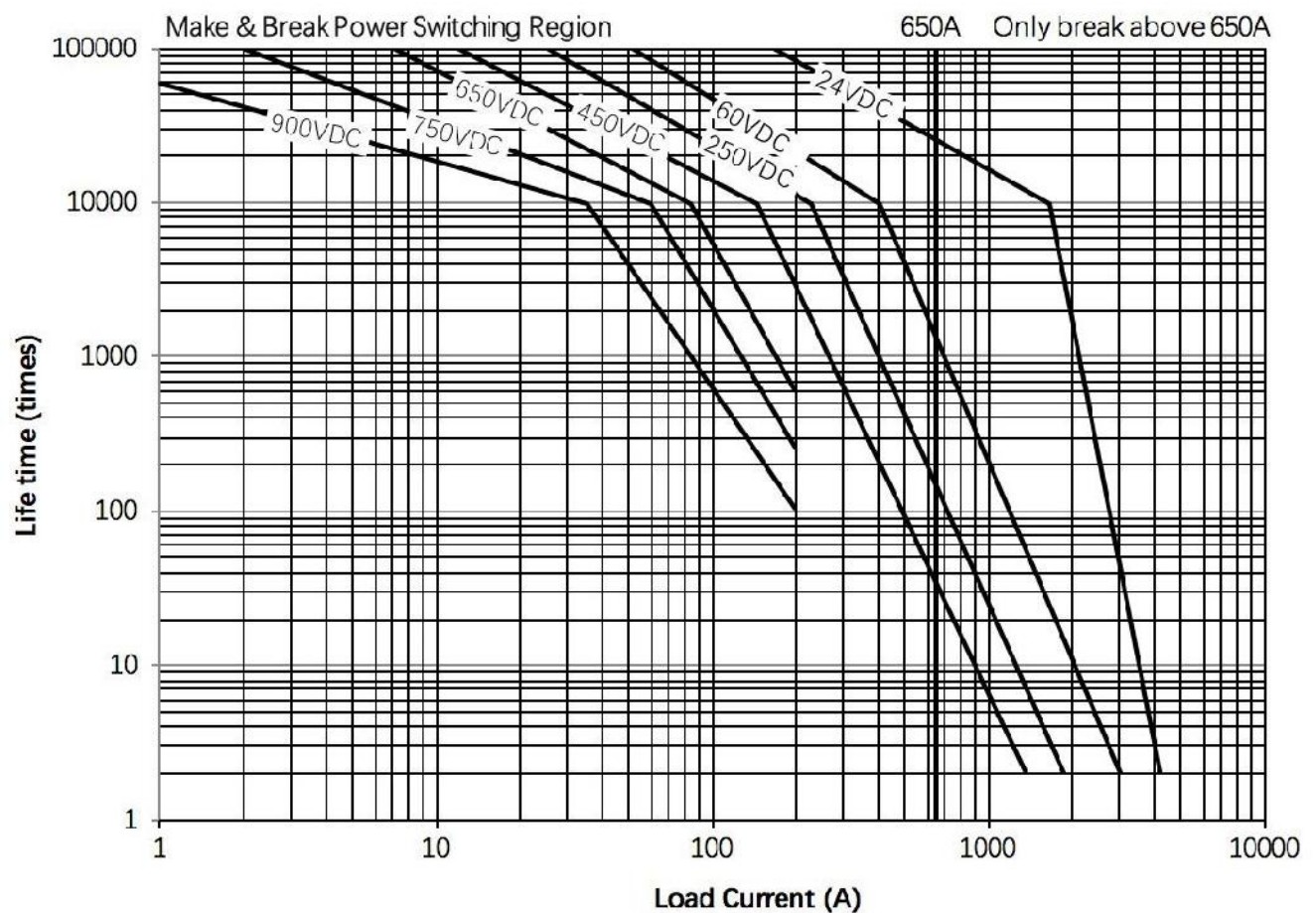


Figure 1

#### Notes:

1. The rated life of the product is based on a resistive load test. The maximum inductance of the load is not more than 300 $\mu$ H; Contact us for more information about Inductive load.
2. The above figure is based on estimated test and inferred data. We advise product to be tested according to the actual use.
3. Contact terminal force (M8) : 8 ~ 10 N.m
4. Installation torque: 1.7 ~ 3.5 N.m

**ORDERING INFORMATION:**

**HV 200**

① ② ③ ④ ⑤ ⑥ ⑦

- ① Series Designation
- ② Rated Operating Current: "200" = 200A
- ③ "A" One set Normally Open; "H" One set Normally open with Auxiliary Contact
- ④ Rated Coil Voltage: "A" = 11 ~ 32VDC;
- ⑤ Terminal Connect Method: "-" : Stud Type; "B": Screw Type
- ⑥ Installation Mode - Base Install
- ⑦ Customization Code: 01~99

*Example: "HV200HA" means: High Voltage DC Relay, rated current under load 200A (Resistance), one set normally open (Stud Type) with Auxiliary Contact, coil voltage is (11 ~ 32) VDC, base install.*



Established 1967



**CERTIFICATE** 

This is to certify that

**Shalco Inc**  
 398 Components Drive  
 Smithfield, NC 27577  
 United States of America

has implemented and maintains a **Quality Management System**

Scope:  
 The design, manufacture and distribution of standard and custom: manually operated rotary switches, electrically operated rotary switches, lock out relays, speed controllers, rotary audio attenuators, Automotive style switches - including BI-Stable relays, Micro-Stable relays and Battery Disconnect switches.

This organization documented in a report, it was verified that the management system fulfills the requirements of the following standard:

**ISO 9001 : 2008**

Certificate registration no: 10001872 CMR  
 Date of original certification: 2003-09-06  
 Date of certification: 2015-09-06  
 Valid until: 2018-09-07

**UL DQS Inc.**

  
 Kenneth Rao  
 Managing Director





Authorized Body U.S. DQS, Inc., 1100 West 14th Street, Suite 540, Southaven, MS 38686 USA