# IHV350 SERIES CONTACTOR



#### **Features**

- Load Voltage 12-1800VDC, Consistent current 350A, 2,300A interrupt @450VDC
- •Built-in coil economizer only 4W hold power in the range of specified ambient temperature and coil voltage, and it limits back EMF to OV.
- •Hermetically Sealed intrinsically safe. Operates in explosive/harsh environments without oxidation or contamination of contacts, including long period of non-operation
- •Moving contact rotates to provide fresh contact resistance and low power consumption
- •Sealed control connector

## **Applications**

- DC charging pile, ESS, Solar Inverter
- •Test equipment, Rail Transit, BMS, E-forklift
- •Motor Control Circuit Isolation, Circuit Protection and Safety in Industrial Machinery

Coil (Valid Over Temperature Range)						
Nominal Voltage	12VDC		24VDC			
Continuous Maximum Voltage	14VDC		28VDC			
Pick-up Voltage (Max.)	10VDC		19VDC			
Drop-out Voltage (Min.)	4VDC		9VDC			
Inrush Current (Max.)	2.8A		1.8A			
Holding Current (Avg.)	0.36A		O.11A			
Inrush Time (Max.)	200mS		200mS			
Insulation Data						
Dielectric Withstand Voltage 2,200 Vrms @ sea level (leakage <1mA)						
Open Contact		4,000VDC				
Contacts to Coil		2.200VDC				
Insulation Resistance, Terminal to Terminal / Terminals to Coil						
Initial Insulation Resistance (500Vdc)		>100ΜΩ				

<sup>\*</sup>After Electrical Endurance Test , don't guarantee the dielectric and insulation performance is same as initial data.



# **High Voltage DC Contactors**

Main Contact Data				
Contact Form	SPST-NO-DM (1 Form X)			
Switching Voltage (Max.)	1,800 VDC			
Load Current	350A (Continuous) 450A (6.5 min)			
Initial voltage drop (350A)	120mV (Max.)			
Operate Voltage(Max.25°C)	25mS			
Operate Bounce (Max.25°C)	5mS			
Release Time (Include arc time)	15mS			
Mechanical Life	200,000 cycles			

Hot Switching Performance (Polarity Sensitive)						
350A	+450VDC	Make/Break	2,500 cycles			
350A	+750VDC	Make/Break	1,000 cycles			
350A	+900VDC	Make/Break	120 cycles			
350A (reverse polarity)	+450VDC	Make/Break	10 cycles			
2,300A	+450VDC	Break Only	2 cycles			
Others						

Shock, 11ms 1/2 sine(operating) — 20G Peak

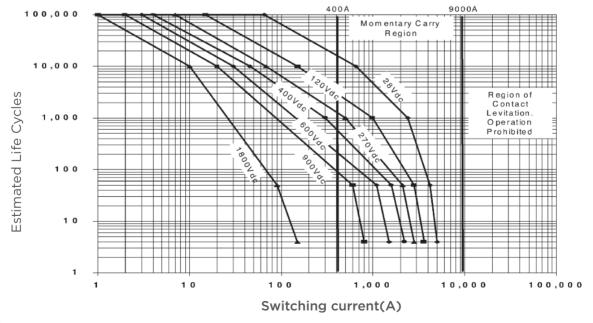
Vibration, Sine, 55 - 2000Hz — 10G Peak

Operating Temperature Range : -40°C to +85°C

Weight: about 800g

## **Contact Ratings**

Estimated rated switching life cycles



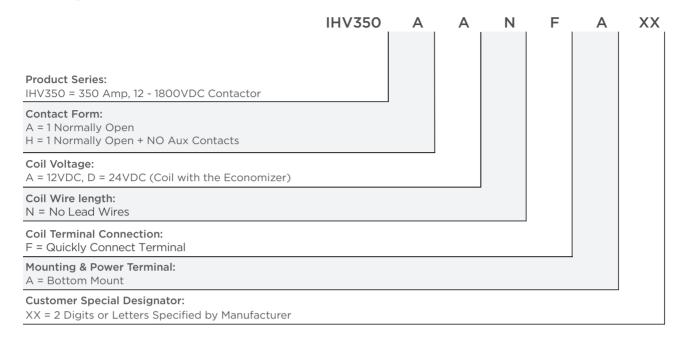
#### Note:

- 1) Resistive load includes inductance L=25uH. Load @2300A tested @200uH
- 2) Carry current> 250A, twin wire 54mm<sup>2</sup> is recommended.



# **High Voltage DC Contactors**

## **Naming Rules for Product Number**

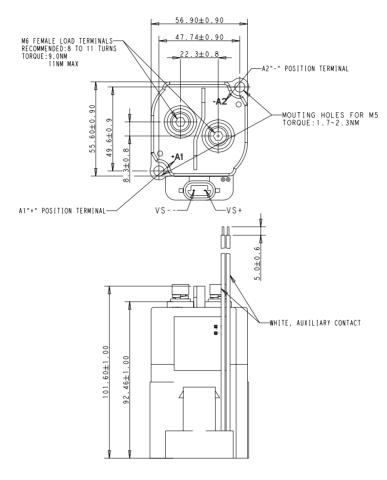




# **High Voltage DC Contactors**

## **Dimensions**

(Unit: mm)



Note: Tolerance are shown for reference purpose only.

PART NUMBER	PRODUCT NAME	COIL VOLTAGE	AUX CONTACT	MOUNT
2071429-1	IHV350AANFA	12VDC	NONE	воттом
2071429-2	IHV350ADNFA	24VDC	NONE	воттом
1-2071429-1	IHV350HANFA	12VDC	NORMALLY OPEN	воттом
1-2071429-2	IHV350HDNFA	24VDC	NORMALLY OPEN	воттом

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