

High Voltage Contactors IHV350 Series

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

Typical applications

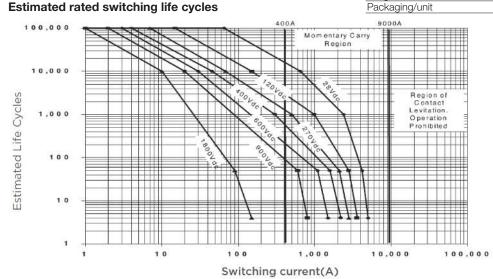
DC Charging, Solar Inverter, Energy Store Station, Test Equipment Battery Management System, Electric Forklift, AGV, Rail Transit Motor Control Circuit Isolation, Circuit Protection and Safety in Industrial Machinery

Approvals cULus E58304

Main Contact Data			
Contact arrangement	1 Form X (SPST-NO-DM)		
Switching voltage (Max)	1,800VDC		
Rated current	350A (Continuous)		
	450A (6.5 minutes)		
Initial voltage drop	< 60mV (350A after 1 minute)		
Operate time max. 25°C	25ms		
Operate bounce time max. 25°C	7ms		
Release time, (Include arc time)	15ms		
Mechanical life	200,000 cycles		

Contact ratings		
Load	Cycles	
350A, +450VDC, make / break	2,500	
350A, +750VDC, make / break	1,000	
350A, +900VDC, make / break	120	
350A (reverse polarity), +450VDC, make / break	10	
2300A, +450VDC, break only	2	

Estimated rated switching life cycles



1) Resistive load includes inductance L=25uH. Load @2300A tested @200uH 2) Carry current> 250A, twin wire 54mm² is



Coli versions, DC Con	oil	DC (versions,	Coil
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Nominal	Operate	Maximum	Release	Inrush	Holding	Inrush
Voltage	Voltage	Voltage	Voltage	Current	Current	Time
	Max.			(Max.)	(Avg.)	(Max.)
12 VDC	10VDC	14VDC	4VDC	2.8A	0.36	200ms
24 VDC	19VDC	28VDC	9VDC	1.8A	0.11	200ms

Insu	lation	Data
D: _	1.7	

Dielectric withstand voltage (leakage co	urrent <1mA)	
between open contacts	4,000Vdc	
between contact and coil	2,200Vdc	
Initial insulation resistance @ 500VDC		
between open contacts	$> 1 \times 10^8 \Omega$	
between contact and coil	> 1×10 ⁸ Ω	

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature DC coil

Vibration resistance (functional),

Shock resistance (functional) Terminal type Weight

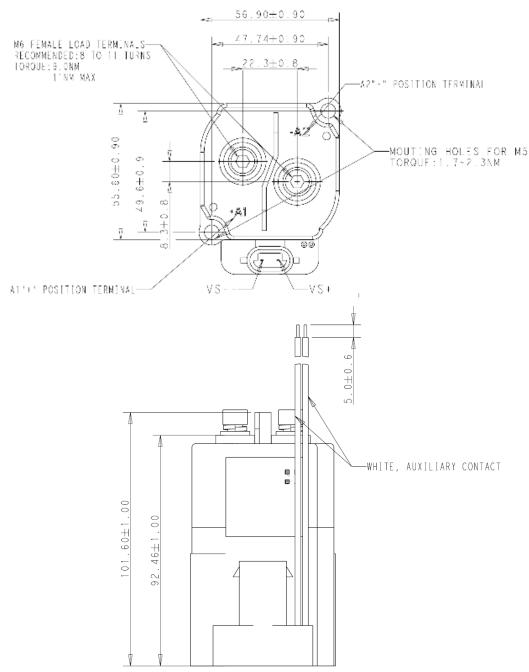
-40°C to 85°C Sine, 80 - 2000Hz, 10G 11ms 1/2 Sine, Peak 20G Screw for contact, wire for coil About 800g

10pcs/carton

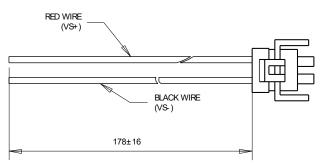


High Voltage Contactors IHV350 Series (Continued)

Dimension



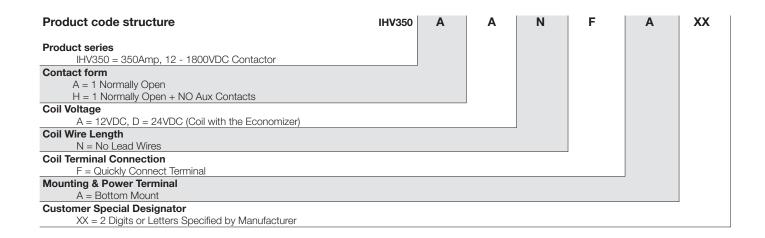
Tolerances are shown for reference purposes only



Note: Sealed control connector is provided, UL STYLPE3239, Silicon insulation, 10KV or greater, 22 gage.



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Product code	Contact form	Mounting position	Coil	Part number
IHV350AANFA	Normally Open	Bottom -	12VDC	2071429-1
IHV350ADNFA	Normally Open		24VDC	2071429-2
IHV350HANFA	Normally Open + NO Aux		12VDC	1-2071429-1
IHV350HDNFA	Contact		24VDC	1-2071429-2