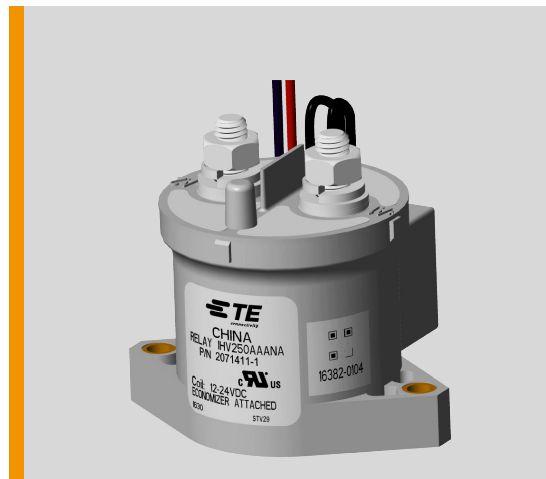


IHV250 SERIES CONTACTOR

- Hermetically sealed — intrinsically safe. Operates in explosive/harsh environments without oxidation or contamination of contacts, including long periods of non-operation
- Inert gases in contact chamber, and arc-blow magnet, allow contact works in 900VDC condition
- Optional auxiliary contact for easy monitoring of power contact position
- Built-in coil economizer — only 1.7W hold power @ 12VDC and it limits back EMF to 0V. Models requiring external economizer also available
- Designed accordance to AIAG QS9000
- Not position sensitive, can be mounted in any orientation
- RoHS compliance



Applications

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

Approval

cULus E58304

Coil Operating Voltage (Valid Over Temperature Range)

Voltage (Will Operate)	9-36VDC
Maximum Voltage	36VDC
Pickup (Close) Voltage Max.	9VDC
Hold Voltage (Min.)	7.5VDC
Drop Out Voltage (20°C) Min.	6VDC
Inrush Current (Max.)	3.8A
Holding Current (Avg.)	0.13A@12V 0.07A@24V
Inrush Time (Max.)	130mS

Insulation Data

Dielectric Withstand Voltage Initial (leakage <1mA)	
Between Open Contacts	2200Vrms
Contacts to Coil	2200Vrms
Insulation Resistance, Terminal to Terminal / Terminals to Coil	
When New	100MΩ, min. @ 500Vdc
At End of Life	50MΩ, min. @ 500Vdc

High Voltage DC Contactors

Main Contact Data

Contact Form	SPST-NO-DM (1 Form X)
Switching Voltage (Max)	12 - 900VDC *
Load Current	250A (Continuous)
Break current (Max)	2,500A, 450VDC
Initial Voltage drop	<60mV (250A after 1 minute)
Operate time (Max)	25mS
Operate bounce (Max)	7mS
Release Time (Include arc time), under 2,500A, Max.	12mS
Mechanical Life (With Auxiliary contact)	500,000 cycles (300,000 cycles)

Auxiliary Contact Data

Contact Form	SPST-NO (1 Form A)
Contact Load, Max.	2A, 30VDC / 3A, 125VAC
Contact Load, Min.	100mA, 8VDC
Contact Resistance, Max	0.5 Ω @ 30VDC / 0.15 Ω @ 125VAC

Hot Switching Performance (Polarity Sensitive)

250A	+450VDC	make / break	3,000 ops
250A	+750VDC *	make / break	500 ops**
250A	-450VDC	make / break	50 ops**
2,500A	+450VDC	break only	3 ops**
650A		make only	26 ops

Environmental Data

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

Sine Vibration, 20G peak — 80-2,000 Hz.

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

Weight - about 430g

* Please contact TE engineers for above 450VDC high voltage switching application

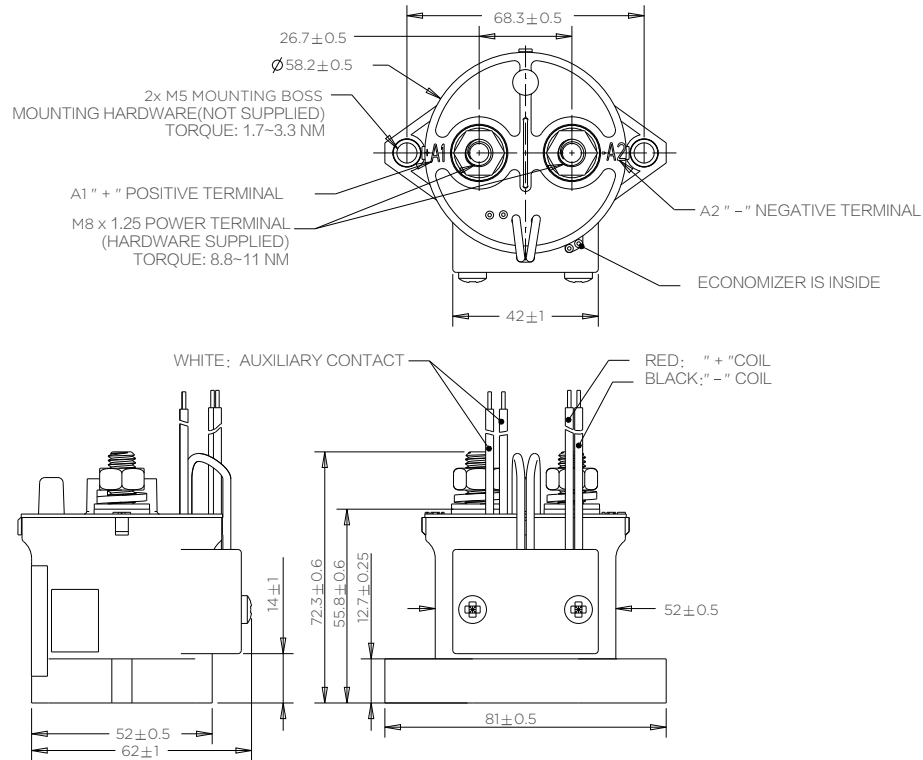
** Without auxiliary contact

Nomenclature

	IHV250	A	A	A	N	A	XX
Product Series							
IHV250 = 250 Amp, 12 - 900VDC Contactor							
Contact Form							
A = 1 Normally Open							
H = 1 Normally Open + NO Aux Contacts							
Coil Voltage							
A = 12-24VDC (Coil with the Economizer)							
Coil Wire Length							
A = 15.3 inch / 390mm							
Coil Terminal Connection							
N = NONE							
Mounting & Power Terminal							
A = Bottom Mount & Male 10mm X M8 Threaded Terminal							
Customer Special Designator							
XX = 2 Digits or Letters Specified by Manufacturer							

High Voltage DC Contactors

DIMENSIONS(Unit:mm)



Tolerances are shown for reference purpose only

PART NUMBER	PRODUCT NAME	COIL VOLTAGE	AUX. CONTACT	ECONOMIZER
2071411-1	IHV250AAANA	12 - 24VDC	NONE	ATTACHED
2-2071411-1	IHV250HAANA	12 - 24VDC	NORMALLY OPEN	ATTACHED

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