



ICC 500 Series

High Voltage Contactors

ICC-500-B-A-9/36

FEATURES

SPST Normally Open High Voltage Contactors

- Hermetic seal with gas fill
- Optional auxiliary contacts – for main position feedback
- Integrated coil economizer to reduce coil holding power
- Meets RoHS 2011/65/EU
- CE certified
- UL recognized (File E536110).
- Please refer to UL file for specific part numbers that are recognized



SPECIFICATIONS

CHARACTERISTIC	MEASURE
Contact Arrangement	Form X, SPST NO
Max Switching Voltage	1,000 VDC
Dielectric Withstand Voltage Contacts to Coil	3,500 VAC, 1 minute
Dielectric Withstand Voltage Across Open Contacts	3,500 VAC, 1 minute
Continuous Current (2 x 127mm ² conductor)	500A
Overload Current: 1 minute 5 Minutes	1,000A 650A
Make and Break	See table
Max Short Circuit Current -1 second	3,000 A
Min Insulation Resistance	1,000 Mohm @ 1,000V
Contact Resistance	0.25mohm (max) / 0.15mohm (typical) at 300A
Operate Time (Max, incl bounce)	25ms
Release Time (Max)	10ms (max) / 5ms (typical)
Shock - Functional, 1/2 Sine, 11ms	20G
Shock – Destructive, 1/2 Sine, 11ms	50G
Operating Temperature	-40°C to 85°C
Ingress Protection	Exceeds IP69, (Hermetically sealed)
Mechanical life	500,000

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SPECIFICATIONS - *Continued*

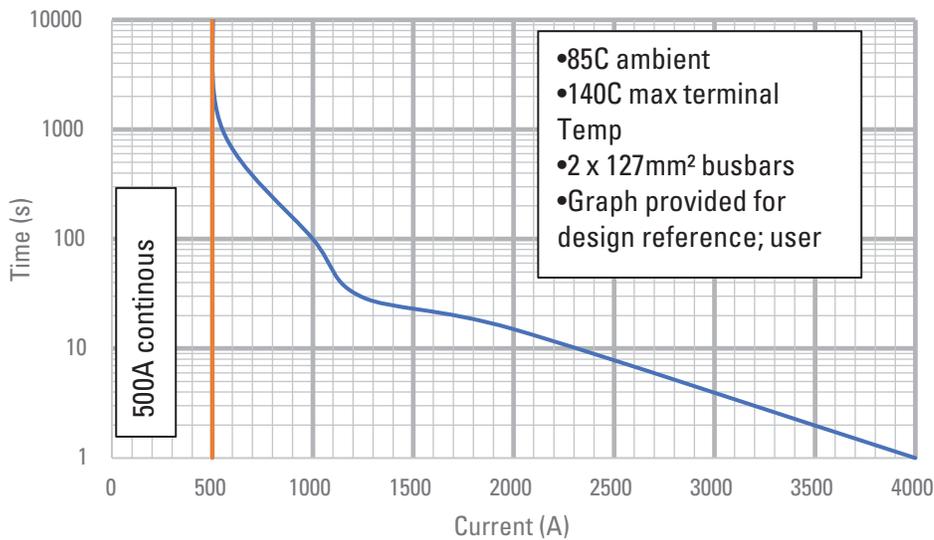
AUXILIARY CONTACTS

	MEASURE
Contact Arrangement	SPST
Continuous Current	2A
Minimum Current	1mA @ 12V

COIL @ 20°C

	MEASURE
Nominal Voltage	9-36 VDC
Pick-up Voltage (Max)	9 VDC
Drop-out Voltage (Min)	6 VDC
Inrush Current (Max), 130ms max duration	3.8A
Coil Resistance	3.2Ω
Holding Current	0.17A @ 12 VDC // 0.09A @ 24 VDC

CURRENT CARRY

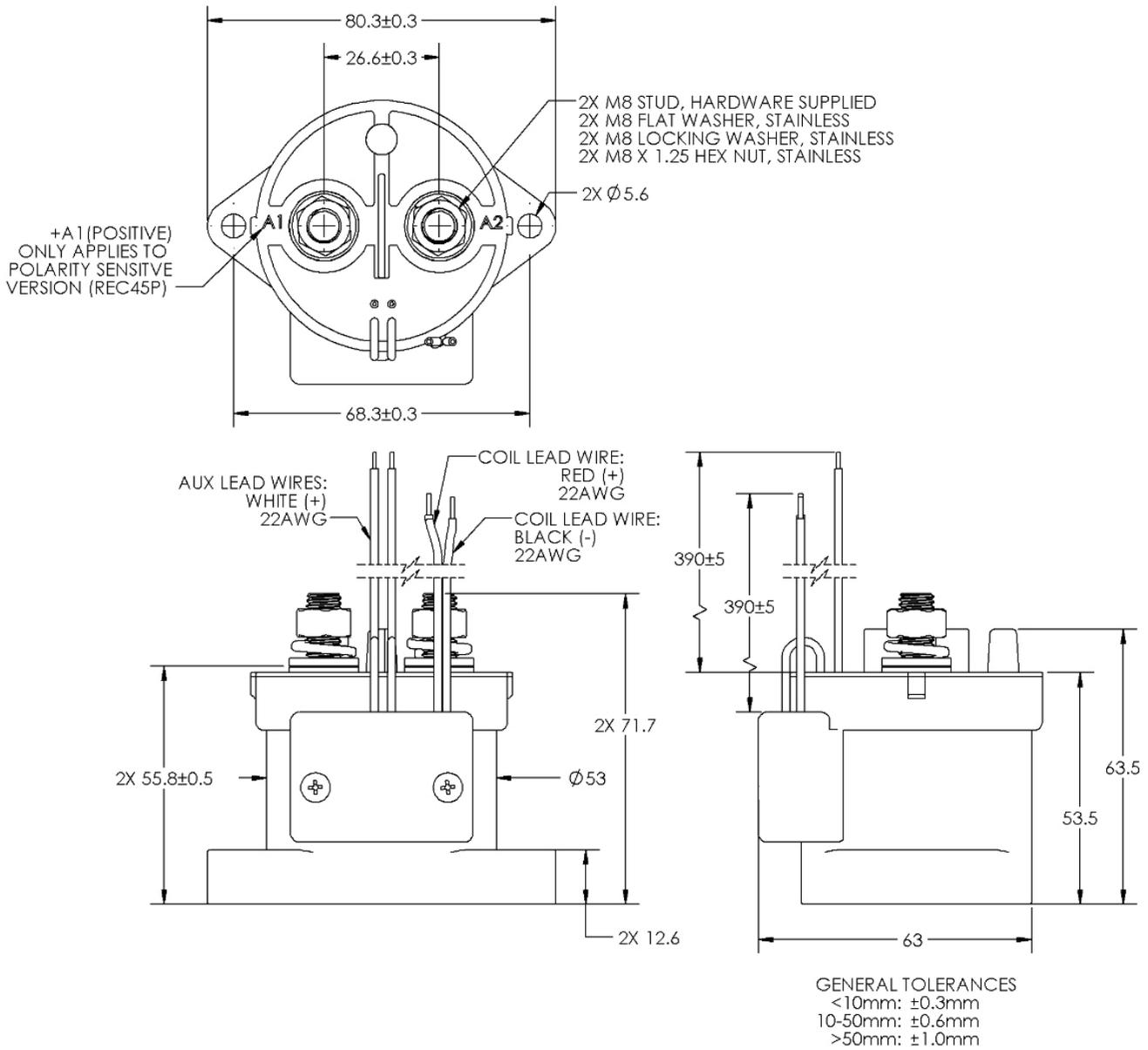


RESISTIVE LOAD SWITCHING (MAKE / BREAK DATA)

VOLTAGE	CURRENT	CYCLES
450V	250A	10,000
800V	300A	4000 BREAK only
800V	200A	10,000
1000V	100A	10,000

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PRODUCT DIMENSIONS [mm]



DIMENSIONAL AND INSTALLATION

CHARACTERISTIC	MEASURE
Weight	≈ 385 g (0.85 lb)
Mounting Position	Any / Not Position Sensitive
Package Quantity	30 pieces
Install Torque	
M8 Main Terminals	9-11Nm (80-97 in-lb)
M5 Mounting Inserts	2-4 Nm (17-35 in-lb)

NOTES

- Polarity Sensitive versions are marked +A1 and -A2 for the power terminals. For applications that require the contactor to open under load, please ensure current is flowing from the +A1 to the -A2 terminal. For Bi-Directional versions the direction of current does not matter when breaking under load.
- Contactor is operated by a coil that changes resistance with temperature: Maximum coil voltage will be lower than indicated at temperatures above 25°C, and higher than indicated at temperatures below 25°C.
- Nominal Coil Voltage for Pick-up Current, Coil Current and Coil Power specifications, Current/Wattage will be lower than indicated at temperatures above 25°C and higher than indicated at temperatures below 25°C.
- Pick-up Voltage and Drop Out Voltage will be lower than indicated at temperatures below 25°C and higher than indicated at temperatures above 25°C.
- Limit terminal temperature to 140C continuous
- Attached cables and busbars directly to the main terminal pad using the recommended install torque. Do not use washers or other materials between the contactor and the conductor. This will ensure the lowest possible contact resistance.
- Avoid excessive coil voltages. Exceeding the ratings on the datasheet may result in high coil temperature and coil failure.
- Contactor may be used above Max Switching Voltage if the application does not require significant load breaking. Please contact salesusa@isabellenhuette.com to discuss in more detail.

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