



O/E/N 161

HIGH VOLTAGE DC CONTACTOR

FEATURES

- Contact Rating of 150A at 150VDC
- Gasless Technology for arc quenching
- Economizer and Non-Economizer version available
- IP 67 Protection
- Limiting continuous current 200A
- Maximum Short Circuit Current of 3500A
- Low Height Version available

APPLICATION

- Main Contactor
- Battery Management System
- Fast Charging

CONTACTOR LOAD DATA

Contact Configuration	: 1 Form X
Contact Voltage Rating	: 150VDC
Contact Current Rating	: 150A
Max. Short Circuit Current	: 4000A for 10ms
Contact Voltage Drop	: <150mV @ 150A
Contact Material	: Silver Alloy

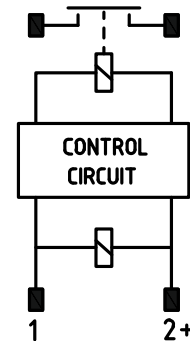
MOUNTING DETAILS

Coil Terminal Interface	: To Suit M6 x 1.0
Load Terminal Mounting Torque	: 5Nm
Coil Supply Interface (Harness Side)	: Female Connector 7283-1020
Mounting Interface	: To Suit M6 Bolt
Mounting Orientation	: Both Horizontal & Vertical

CONTACTOR GENERAL DATA

Operate Time	: ≤ 20.0 ms
Release Time	: ≤ 10.0 ms
Di-electric Withstand Voltage	
B/W Load Terminals	: 1mA max. @2800 Vrms
B/W Load Terminal To Coil	: 1mA max. @2800 Vrms
Operating Voltage Range	: 9VDC to 16VDC
Weight	: 240g Max.

WIRING DIAGRAM



ENVIRONMENTAL DATA

Insulation Resistance	: 100MΩ min@500VDC, AT+25°C, RH50%
Operating Temp Range	: -40°C to +85°C
Operating Voltage Range	: 9VDC to 16VDC
Enclosure Type	: IP67

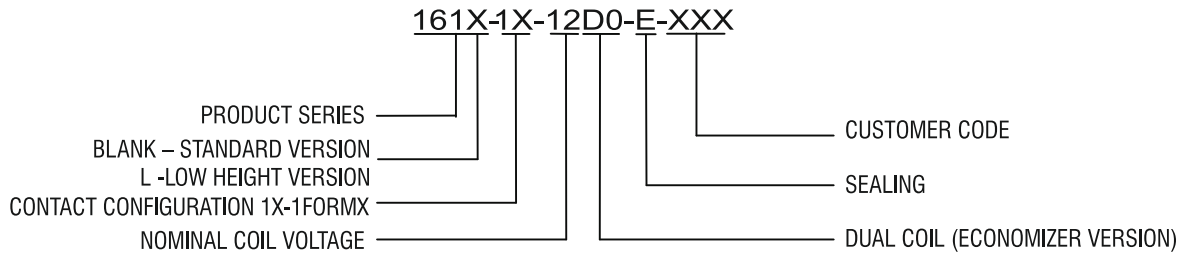
ENDURANCE DATA

Electrical Life	: At 20A, 72VDC: 100000 Cycles at 7 Sec. ON, 5 Sec. OFF
	: At 150A, 72VDC: 5000 Cycles at 1 Sec. ON, 9Sec. OFF
	: AT 150A, 150VDC: 1000 Cycles at 0.3 Sec. ON, 2.7 Sec. OFF
	: AT 100A, 250VDC: 50 Cycles at 0.2 Sec. ON 20 Sec. OFF
Mechanical Life	: Without Load: 200000 Cycles at 1.0 Sec ON, 1.0 Sec. OFF

COIL DATA

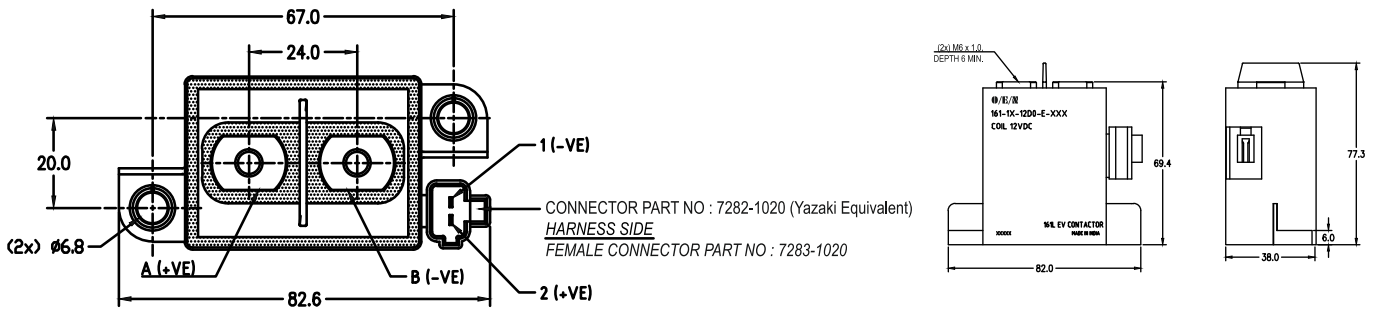
Nominal Coil Voltage (VDC)	Coil Resistance		Operate Voltage (VDC)	Drop-Out Voltage (VDC)	Coil Current		Coil Power	
	Pick-up Coil ($\Omega \pm 10\%$)	Hold Coil ($\Omega \pm 10\%$)			Pick-up Coil ($A \pm 10\%$)	Hold Coil ($A \pm 10\%$)	Pick-up Coil ($W \pm 10\%$)	Hold Coil ($W \pm 10\%$)
12	2.8	28.0	≤ 9.0	≥ 1.2	4.3	0.43	51.4	5.1

HOW TO ORDER

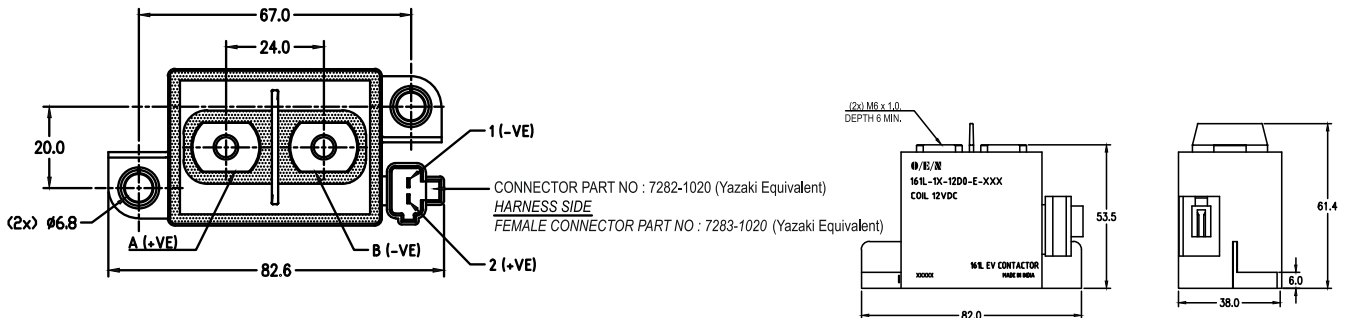


DIMENSIONS

Standard Version



Low Height Version



NOTE:

- 1 & 2 are coil terminals
- A & B are load terminals
- Dual coil is with internal economizer (Pick up Coil will be switched OFF before 200 ms)