

# DCNEVT350 SERIES HIGH CURRENT HIGH VOLTAGE DC CONTACTOR RELAY



## Description

High current and high voltage DC contactor relays for electric vehicle, hybrid electric vehicle, circuit protection, battery switch, and main power break. Coil Economizer greatly reduces coil power and heating after the contactor is energized. Once the contactor is energized, it takes minimal coil power to keep the contacts closed due to Pulse Width Modulation (PWM) reducing the average power delivered by pulsing the electrical signal. Utilizes polarized contacts for optimum performance amidst polarized electrical loads.

## Web Resources

Download 2D print and technical resources at:  
[littelfuse.com/DCNEVT350](http://littelfuse.com/DCNEVT350)

## Ordering Information

PART NUMBER	DESCRIPTION	COIL VOLTAGE 12V DC	COIL VOLTAGE 24V DC	BOTTOM MOUNT	AUXILIARY CONTACT SPST-NO
DCNEVT350-B	High Voltage DC Contactor Relay Bottom Mount with Polar Load Terminals	●		●	
DCNEVT350-BA	High Voltage DC Contactor Relay Bottom Mount with Auxiliary Circuit with Polar Load Terminals	●		●	●
DCNEVT350-C	High Voltage DC Contactor Relay Bottom Mount with Polar Load Terminals		●	●	
DCNEVT350-CA	High Voltage DC Contactor Relay Bottom Mount with Auxiliary Circuit with Polar Load Terminals		●	●	●

\* Box Packaging Available



## Specifications Overview

<b>Amperage:</b>	350A Continuous Carry
<b>Housing:</b>	Nylon UL 94-V0
<b>Voltage Rating:</b>	1800V
<b>Connectors:</b>	Sealed Control Wire Connector (Included) Aptiv P/N 12162017
<b>Ingress Protections:</b>	IP54
<b>Operating Temperature:</b>	-40°C to 85°C
<b>Circuitry:</b>	SPST NO
<b>Voltage:</b>	<b>B:</b> 12V DC Nominal, 9-16V DC Working <b>C:</b> 24V DC Nominal, 18-28V DC Working
<b>Max Coil Inrush Current:</b>	<b>B:</b> 2.8A Max to coil <b>C:</b> 1.8A Max to coil
<b>Size:</b>	Reference Dimensions on Page 2
<b>Mounting:</b>	M6
<b>Mounting Bolt Torque:</b>	1.7-3.3 Nm (15-30 in-lb)
<b>Contact Torque:</b>	6-8 Nm (53-70 in-lb)
<b>Terminals:</b>	M6 Silver Plated Copper
<b>Approvals:</b>	UL File No. E510407

## Features and Benefits

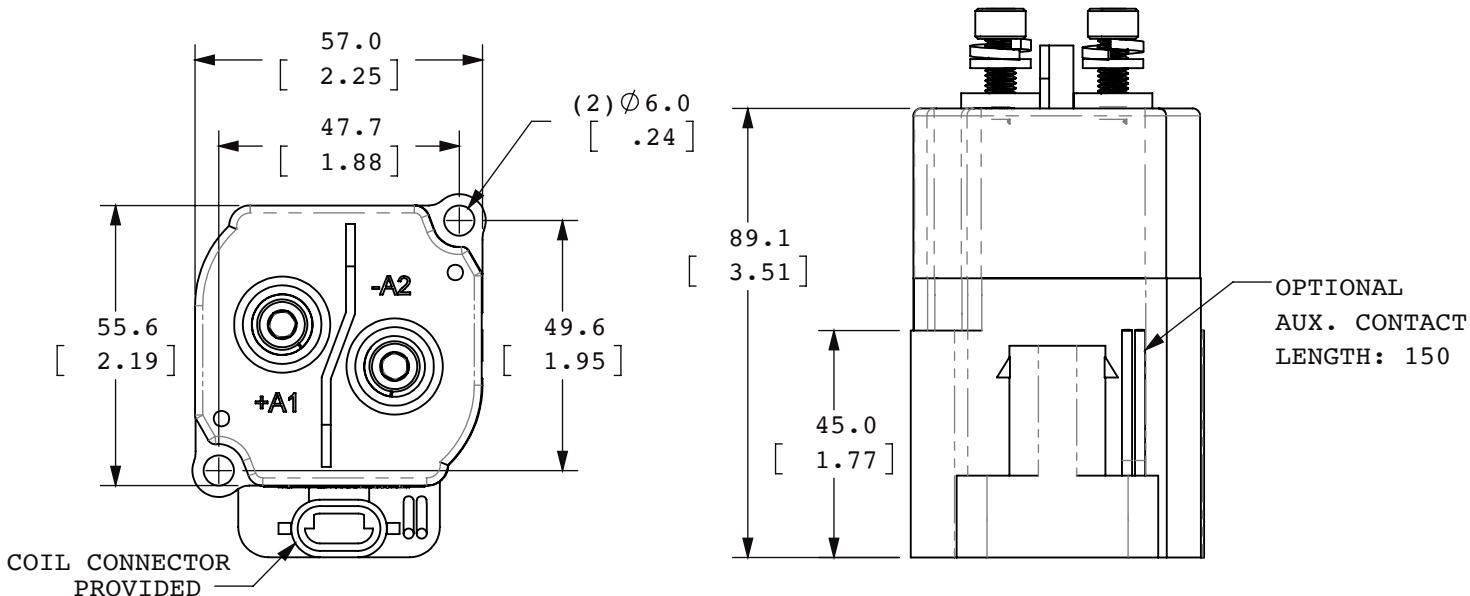
- High current (350A) and high voltage (1800V) contactor for EV applications
- Coil Enonomizer greatly reduces coil power and heating
- Hermetically sealed contact chamber to protect all moving parts
- Sealed control wire connector included
- Able to handle harsh environments

## Applications

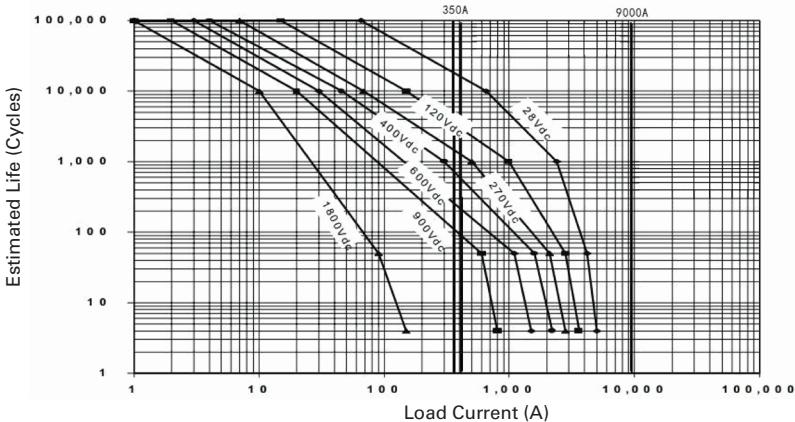
- Battery Electric Vehicles
- Hybrid Electric Vehicles
- Material Handling
- Electric Maintenance and Transport Vehicles
- Industrial Applications

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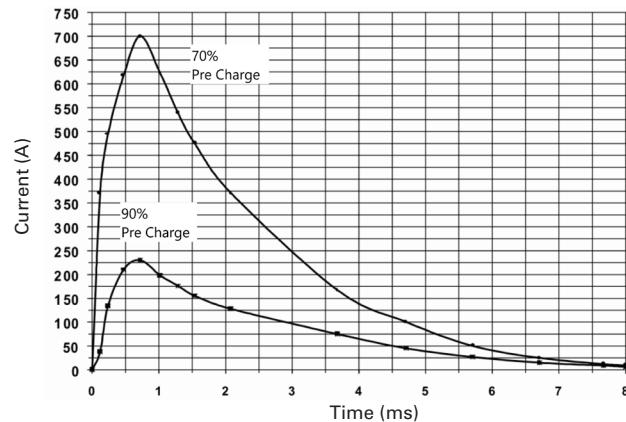
## Dimensions in MM



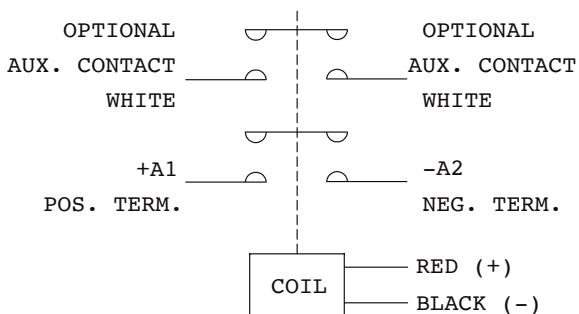
## Estimated Make Break Chart



## Capacitive Make Test Curve



## Electrical Diagram



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Littelfuse:](#)

[DCNEVT350-B](#)