

Key Features

- . Continuous current up to 175 A
- Suitable for voltage levels up to 500 VDC 1)
- Short circuit carry capability 5,000 A
- Mounting in any direction
- · Available with dual and single coil

Typical Applications

- DC high voltage high current applications
- Main contactors for hybrid, full battery electric vehicles and fuel cell cars
- · Battery charging systems

Contact Data

Contact arrangement:

1 Form X (NO DM)

Rated voltage:

450 VDC 1)

Limiting cont. current at 85 °C: 175 A

Limiting making / breaking current:

210 A / 30 A (>100,000 ops.)

Short term current rating:

(0.5 min) 500 A

Short circuit carry current:

(20 ms) 5,000A

Operate / release time max. (typ.):

20 / 8 ms at 12 VDC (coil voltage)

Coil Data

Rated coil voltage / power: 12 VDC

Rated coil power (+23°C):

0.8 W (single coil), 0.49 W (dual coil) 2)

Coil resistance (+23°C):

 5Ω (single coil), $3/33 \Omega$ (dual coil)

Coil Data

Ambient temperature:

-40 °C to +85 °C

Category and degree of protection:

dustproof, IP 50 (upright); IP54 3) (others)

Terminal type and mounting:

Connector (coil) / M6 bolts (load);

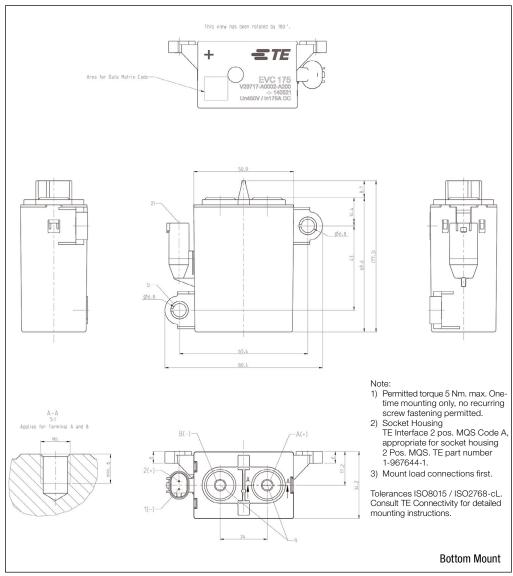
Dimensions LxWxH (approx.):

77.3 x 50.9 x 34.2 mm (3.0 x 2.0 x 1.3")

Weight (approx.):

295 g (10.4 oz)

EVC 175 Main Contactor



Ordering Information EVC 175 Main Contactor

Product Code	Arrangement	Coil (VDC)	Econo- mization	Coil Suppr.	Rated Voltage (VDC)	Terminal Type	Mounting	Resistance	Part Number
V23717- A0001-A200	1 form X (NO DM)	12	External economizer	External > 36 V	450	Connector/ Screws	Side	$\begin{array}{c} 5~\Omega\\ \text{Single coil} \end{array}$	6-1904123-6
V23717- A0002-A200	1 form X (NO DM)	12	Internal economizer	Internal	450	Connector/ Screws	Side	$3/33~\Omega$ Dual coil	2-1904070-1

- 1) Consult TE Connectivity for higher voltages. For details please refer to datasheet.
- 2) Valid for 23°C coil temperature with active economization.
- 3) Protection class applicable for all mounting orientations except load terminals on top.