Key Features

- Continuous current up to 250 A
- Suitable for voltage levels up to 450 VDC [1)]
- Short circuit carry capability 6,000 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:
250 A

Limiting making / breaking current:
250 A / 100 A (>50,000 ops.)

Short term current rating:
(1 min) 600 A

Short circuit carry current:
(25 ms) 6,000 A

Operate / release time max. (typ.):
25 ms at 14 VDC (coil voltage)

Coil Data

Rated coil voltage / power:
12 VDC

Rated coil power (+23 °C):
1.0 W min. (single coil),
0.44 W (dual coil) [2)]

Coil resistance (+23 °C):
4 Ω (single coil), 3 / 36 Ω (dual coil)

Coil Data

Ambient temperature:
-40 °C to +85 °C

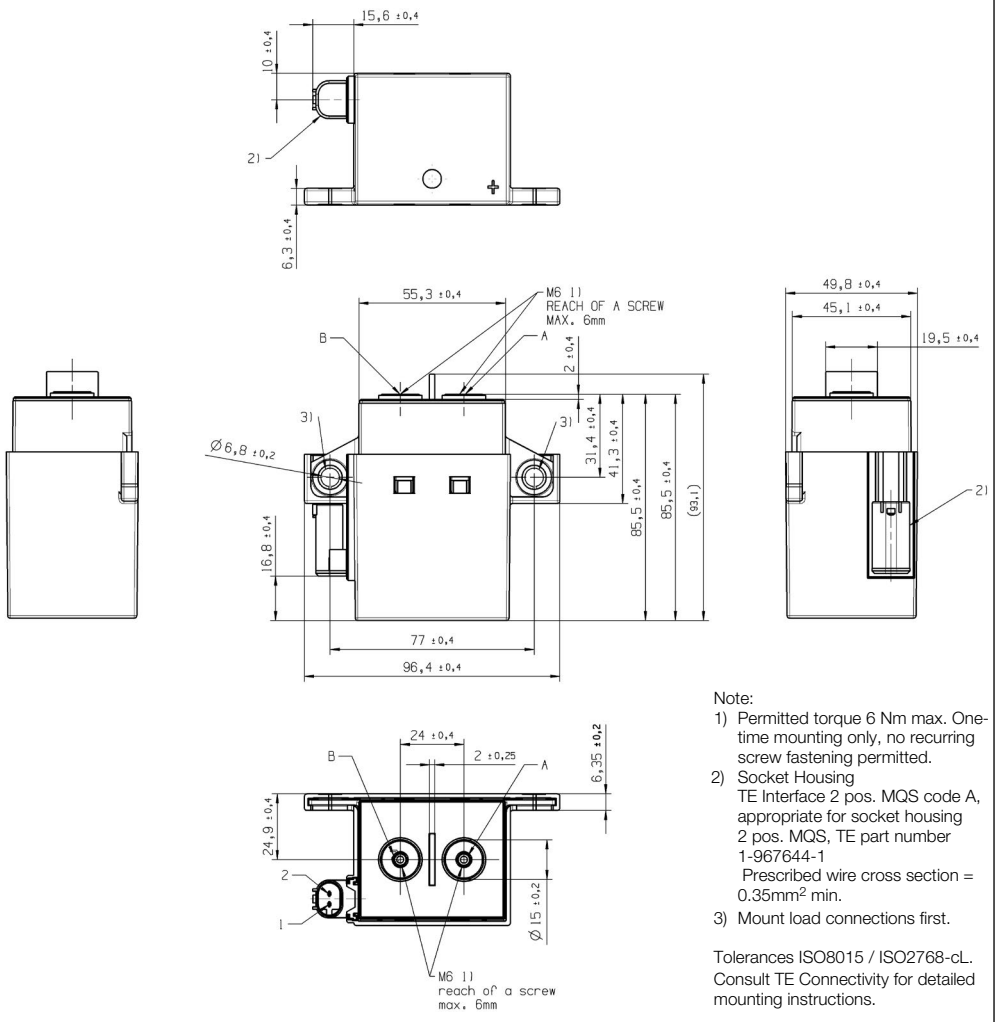
Category and degree of protection:
dustproof, IP 50 (upright); IP54 [3)] (others)

Terminal type and mounting:
Connector (coil) /M6 bolts (load); screws

Dimensions LxWxH (approx.):
93.1 x 55.3 x 49.8 mm (3.7 x 2.2 x 2.0")

Weight (approx.):
approx. 560 g (19.7 oz)

EVC 250 Main Contactor



Note:
1) Permitted torque 6 Nm max. One-time mounting only, no recurring screw fastening permitted.
2) Socket Housing
TE Interface 2 pos. MQS code A, appropriate for socket housing 2 pos. MQS, TE part number 1-967644-1
Prescribed wire cross section = 0.35mm² min.
3) Mount load connections first.

Tolerances ISO8015 / ISO2768-cL.
Consult TE Connectivity for detailed mounting instructions.

Bottom Mount

Ordering Information EVC 250 Main Contactor

Product Code	Arrangement	Coil (VDC)	Econo-mization	Coil Suppr.	Rated Voltage (VDC)	Terminal Type	Mount-ing	Resistance	Part Number
V23720-A0001-A001	1 form X (NO DM)	12	No economizer	External > 36 V	450	Connector/ Screws	Side	4 Ω Single coil	2-1904070-2
V23720-A0002-A001	1 form X (NO DM)	12	Coil switch	Internal	450	Connector/ Screws	Side	3 / 36 Ω Dual coil	4-1904065-7

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.