



EVC 500 Main Contactor

Key Features

- Continuous current up to 500 A
- Load voltage up to 450 VDC ¹⁾
- Short circuit carry capability 3,500 A
- Optional coil economizer
- Robust bottom mounting with optional economizer enclosure

Typical Applications

- Main contactor for hybrid and electric vehicles

Contact Data

Contact arrangement:
 1 Form X (NO DM)

Rated voltage:
 450 VDC ¹⁾

Limiting cont. current at 85 °C:
 500 A

Limiting making / breaking current:
 150 A / 150 A (>10,000 ops.)

Short term current rating:
 (1 min) 800 A

Short circuit carry current:
 3,500 A

Operate / release time max. (typ.):
 20 ms / 12 ms

Coil Data

Rated coil voltage / power:
 12 VDC

Rated coil power:
 PWM required

Coil resistance (+23 °C):
 3.14 Ω

Coil Data

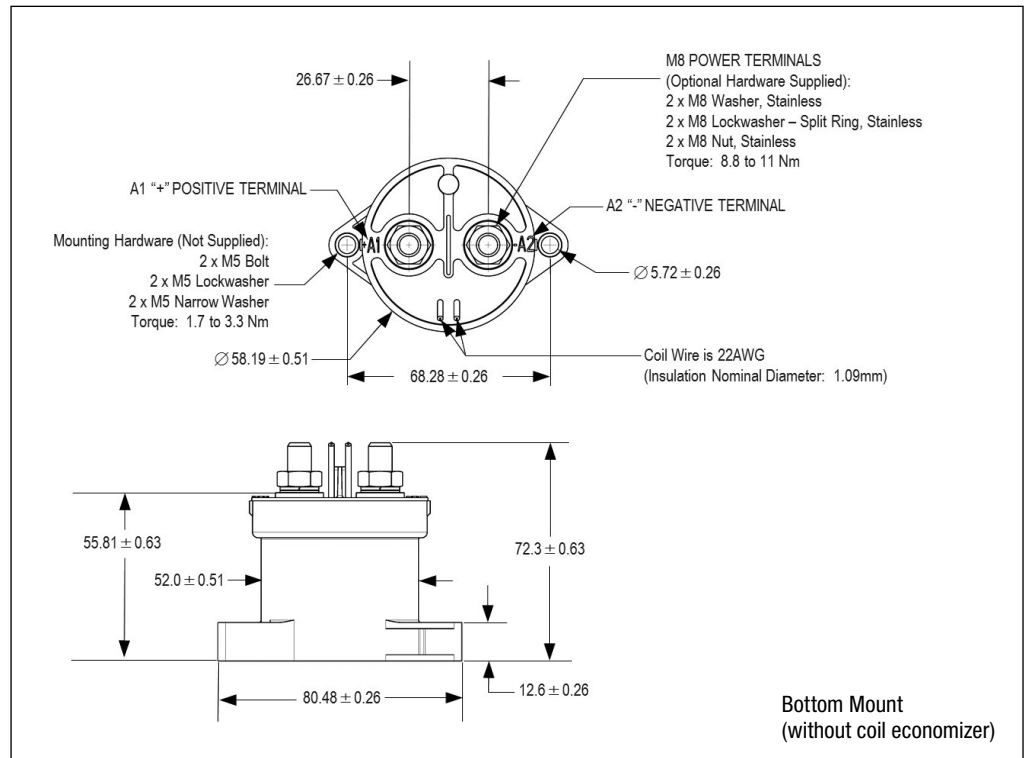
Ambient temperature:
 -40 °C to +85 °C

Category and degree of protection:
 hermetically sealed

Terminal type and mounting:
 Stripped wires (coil) / M8 bolts (load); screws

Dimensions LxWxH (approx.):
 80.5 x 58.2 x 72.3 mm (3.2 x 2.3 x 2.9")

Weight (approx.):
 430 g (15.2 oz)



Ordering Information EVC 500 Main Contactor

Product Code	Arrangement	Coil (VDC)	Economization	Coil Suppr.	Rated Voltage (VDC)	Terminal Type	Mounting	Resistance	Part Number Asia Production Americas Prod.
EVC 500-A1ANAM	1 form X (NO DM)	12	No economizer	External > 40 V	450	Stripped wires / Screws	Bottom	3.14 Ω	2219561-1 2098372-1
EVC 500-AAANAM	1 form X (NO DM)	12	Internal PWM	Internal	450	Stripped wires / Screws	Bottom	3.14 Ω	2299223-2 2098190-1

1) Consult TE Connectivity for higher voltages. For details please refer to datasheet.