

# Series 31s - ssVEC

## Severe Service Vehicle Electrical Center

The ssVEC is capable of operating in various environments such as those with high vibration and moisture (compliant with IP66 standards). The ssVEC provides efficient and compact power distribution for OEMs with demanding applications in the transportation industry including construction, agriculture, heavy trucks, bus, marine and specialty vehicles. As with all VECs, the ssVEC uses the patented Eaton 'power grid' technology easily configured to accommodate various OEM wiring requirements.

### Features & Benefits

Eaton ssVECs all feature a unique color-coded and keyed connector system, and accepts 2.8mm (mini) footprint fuses, relays, circuit breakers, resistors, diodes and transorbs

Additionally the ssVEC has these features:

- Durable plastic housing featuring a Gortex vent
- Internal silicone gasket between all seams and plastic to terminal interfaces

### Options

Cover: Solid domed cover with gasket

Cover marking: Laser etching inside, outside, or both

Components: Fuse, breaker, relay, diodes and transorbs

Compression limiters on mounting feet

Internal spare fuse holder and socket for fuse extraction tool

Dual version (400A) available (see ssDVEC)

Multiplex option available (see mVEC)



## Specifications

### Capacity

- 200A maximum rating
- 30A per output
- Maximum of 8 relays or 8 fuses, or various combinations thereof (unique design configurations may be required)

### Materials

- Housing and connector cavities: UL 94 V-0 rated thermoplastic
- Internal power grid: tin-plated copper
- Internal gaskets stud input covers: silicone

### Operating temperature ratings

- 40°F (-40°C) to 221°F (105°C)

### Ingress protection

- Application dependant up to IP66 requirements

### Maximum torque rating

- 200 to 300 in-lbs with compression limiters
- 24 in-lbs without compression limiters

### Connections

Output: Standard Eaton 32006 VEC connectors

- 8-way, colored/keyed, sealed connectors sealed (IP66 with wire seals & plugs)
- 30A maximum per terminal
- 100A maximum per connector
- Accepts Delphi Metri-Pack 280 Series terminals (tanged/tangless)

Input: Studded or Connectorized

- Studded input option: Supports two M8 input power studs for DC power into the VEC power grid (100A maximum per stud)
- Connectorized: Accepts up to two Eaton 32004 VEC input connectors (two terminals each, colored/keyed, sealed connectors)
- 60A maximum per terminal, providing power to the VEC Power Grid

### Terminations

#### Output

- Delphi Metri-Pack® 280 Series terminals (sealed/unsealed and tanged/tangless)
- Delphi Metri-Pack 280 Series cavity plugs are installed where wires are not used.

#### Wire Sizes

- With wire seals: #12-22 AWG (0.35-5.0mm<sup>2</sup>)
- Without wire seals: #10-22 AWG (0.35-5.0mm<sup>2</sup>)

#### Input

- Delphi Metri-Pack 800 Series terminals (sealed/unsealed)

#### Wire Sizes

- With wire seals: #10-14 AWG (2.0-8.0mm<sup>2</sup>)
- Without wire seals: #8-14 AWG (2.0-8.0mm<sup>2</sup>)

*Notes: Each design is customer specific. Consult your sales representative today for your application. Electrical terminals, cable seals and cavity plugs are NOT supplied by Eaton.*

## Dimensions in mm (inches)

