

# Series 32s - ssDVEC

## Severe Service Dual Vehicle Electrical Center

The ssDVEC is capable of operating in various environments such as those with high vibration and moisture, up to direct high pressure spray (IP66). The ssDVEC 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 ssDVEC uses the patented Eaton 'power grid' technology easily programmable to accommodate various OEM wiring requirements.

### Features & Benefits

Eaton DVECs all feature a unique color-coded/keyed connector system, and accepts common plug-in fuses, relays, circuit breakers, resistors, diodes and transorbs based on the industry standard 2.8mm footprint.

Additionally the ssDVEC has these features:

- Durable plastic housing
- Gortex vent minimizing effects of water condensation
- Internal silicone gasket between all seams and plastic terminal interfaces
- Internal spare fuse holder and socket for fuse extraction tool

### Options

Cover: Solid domed cover with gasket

Cover marking: Laser etching (outside only)

Components: Fuse, breaker, relay, diodes and transorbs

Compression limiters on mounting feet

Internal spare fuse holder and socket for fuse extraction tool



## Specifications

### Capacity

- 400A maximum rating
- 30A per output
- Maximum of 32 relays or 64 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 dependent up to IP66 requirements

### Maximum torque rating

- M8 input stud: 18 FT-LBS
- Mounting: 2.5 FT-LBS without compressions limiters
- Mounting: 25 FT-LBS with compression limiters

### Connections

Output: Standard Eaton 32006 VEC connectors

- 8-way, colored/keyed, sealed (IP66 with wire seals & cavity plugs) connectors
- 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 four M8 input power studs for DC power into the VEC power grid (100A maximum per stud)
- Connectorized: Accepts up to four Eaton 32004 VEC 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)

