

Inverter replacement and upgrade solutions for SC9000 medium voltage drives



The SC9000 medium voltage drives manufactured from 2007 to 2013 featured potted inverters of which most of the components, including IGBTs, are no longer available due to obsolescence. In the case of a failure, avoid unexpected downtime by taking a proactive approach with one of our two inverter replacement and upgrade solutions.

Both solutions offer field serviceability enhancements by replacing the potted inverter with an inverter comprised of individually encapsulated powerpoles as featured in our current medium voltage drive, the SC9000™ EP which was released in 2013. By utilizing encapsulated powerpole technology, individual poles are now field replaceable in less than two hours, significantly reducing the downtime associated with inverter repairs.

Enhance the field serviceability of your Eaton medium voltage drive and avoid potential costly downtime with one of these two options:

Option A – Inverter only replacement

- Removal and installation of a new inverter with encapsulated powerpoles
- Replacement of back panel due to modified inverter connection point
- New master and slave interface cards (MIC and SIC)
- New fans – including a spare set of fans
- Shorter install time over the complete retrofit option

Option B – Complete SC9000 EP retrofit

Receive all the benefits of Option A as well as the additional features below:

- Improved diagnostics – MIC and SIC control cards are replaced with a single ITG card that can differentiate faults with over 130 diagnostic codes
- Increased reliability from the 24V UPS mounted in control rack
- Updated controls to enable Modbus mapping as well as the latest software upgrades
- Optional motor temperature monitoring with the URTD2 module can be linked through Modbus
- Floating neutral design with resistor to limit ground current

To take advantage of one of these replacement and upgrade options, please contact your Eaton sales representative.

For more information on Eaton's medium voltage drives and the benefit of the SC9000 EP's encapsulated powerpole inverter, visit: Eaton.com/SC9000

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

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