



Addition of fuses to gate driver circuit of MV7

A fundamental protection to safeguard the gate drivers from short circuits

Fundamental protection technique

Gate driver circuit is one of the vital circuits of your drive system. It generates the triggering pulses to turn on and off the IGBTs of inverter, rectifier and chopper. It is always significant to maintain this gate driver circuit in a safe operating condition for flawless drive operation.

GE Power Conversion recommends adding fuses to the gate driver's power supply as a basic protective measure. In case of concerns at the primary side of the power supply, the storage capacitors may discharge through a short-circuit and potential overheating of the general terminal. This leads to short circuit at the gate driver circuit. Addition of new fuses help to prevent gate driver circuit from these unexpected short circuits.

Benefits

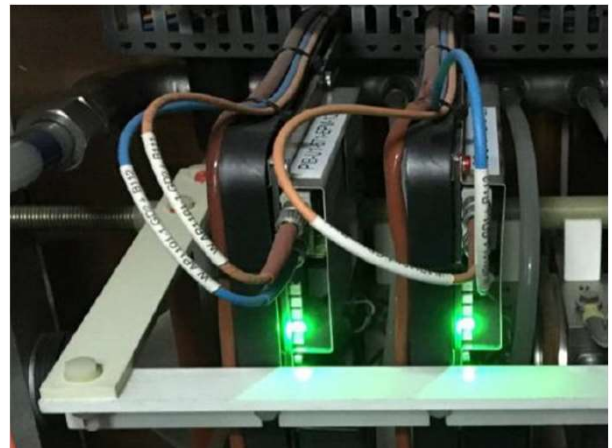
- Prevents risks of short circuit spread.
- The drives will be repaired and recovered within a short period of time.
- Maintenance cost will be limited.
- Complete end to end support with materials including installation, testing and documentation by GE experts.

GE's services for a lifetime

GE offers bespoke service support in the form of spares and replacement parts, onsite and remote technical support, maintenance services, upgrades, customized trainings and service agreements aimed at supporting customers based on their unique needs.



**New terminal blocks with fuses
(Fused TBs)**



**IGBT Gate driver with fuse
protection**

Salient points

- *It is applicable to MV7312 / MV7309 / MV7308 / MV7306 / MV7304, not for drives having high frequency power supply.*
- *Field Service Engineer (FSE) completion time at site will be 1 FSE day / converter based on the converter type.*
- *GE recommends to add this fuse protection during the next maintenance/dry dock.*

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