
Sto24v inverter

What is STO in inverter drive?

STO is a safety feature implemented in inverter drives to prevent the motor generating any torque so that it is reliably stopped when a safety function is activated. Once the STO is activated, power to the motor is cut off, and the drive ensures that the motor coasts to stop with no additional torque generated. When is STO Required?

What happens if the STO function is not present on the inverter?

If an STO function is not present on the inverter, external components such as a contactor or relay can be used to power off the motor in case of a safety event. How can IMO help? Simple!

How does a Sto circuit work?

The STO circuit is comprised of two identical channels, each of which must be energized in order for the drive to produce motion. Each STO input is opto-isolated and accepts 24 V levels directly without the need for external current limiting resistors. IMPORTANT: The drive might be equipped with an STO bypass circuit board.

Why do IMO inverters have Sto onboard?

All IMO inverters come equipped with STO onboard as a standard feature making the engineer's job easier by ensuring that all IMO inverter-driven motors can be safely shut down. This also avoids the need for external components which are costly and can themselves be less reliable than onboard electronic STO.

If the drive flash between STO/NST, then NST /STO, it looks like a short circuit between 0V and internal 24V of the drive. The recommendation is to remove all terminal (...)

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Drives Frequency inverters DRV-24 - universal AS24DRV20C7 « Go back to product list
Frequency inverter 0.75 kW, STO; single-phase input / three-phase output; 30 month warranty
...

Issue: STO on AT600 and ATV900 Drives. Product Line: Altivar Process
Drives Environment: All Cause: NA Resolution: STO is not a fault code. It is a state of the drive. It
...

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Description This reference design outlines a safe torque off (STO) subsystem for a 3-phase inverter with CMOS input isolated IGBT gate drivers. The STO subsystem employs a ...

The inverter reports the activation of the STO safety function to the higher-level controller via two digital outputs. Figure 1: Connection for the feedback signal "STO is active" ...

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