

Service note

ACS 6000 fast recovery option

ABB offers a fast recovery option for its ACS 6000 medium voltage drive to further increase the drive's availability.



ACS 6000 variable speed drive

Fast recovery option

Availability key is for our customers to minimize downtime due to power breaks and thus maximize production.

Possible reasons for main power loss are generator or network failure. Normally during a main power loss also drive DC link will go to zero and the charging procedure can only be restarted after the main power has returned.

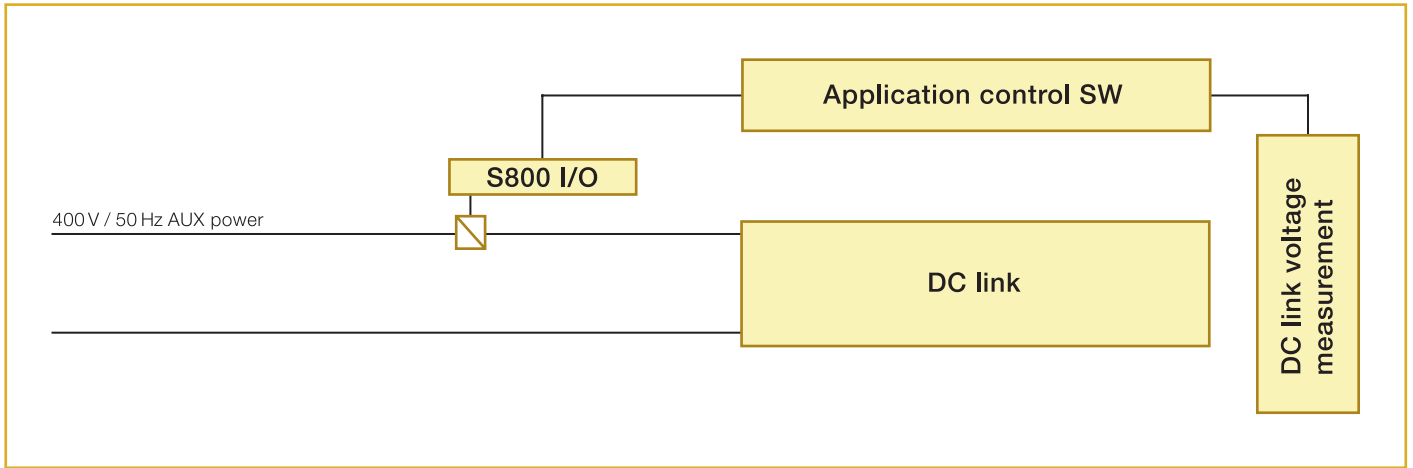
The fast recovery option has been designed to maintain the DC link voltage level even during a main power loss by supplying voltage from an UPS (uninterruptible power supply) to the DC link. Thus the dependency on auxiliary power is minimized. When the main power has returned, the converter is able to close the MCB (main circuit breaker) and start on command from the overriding system within a few seconds.

This upgrade further improves the availability of the ACS 6000.

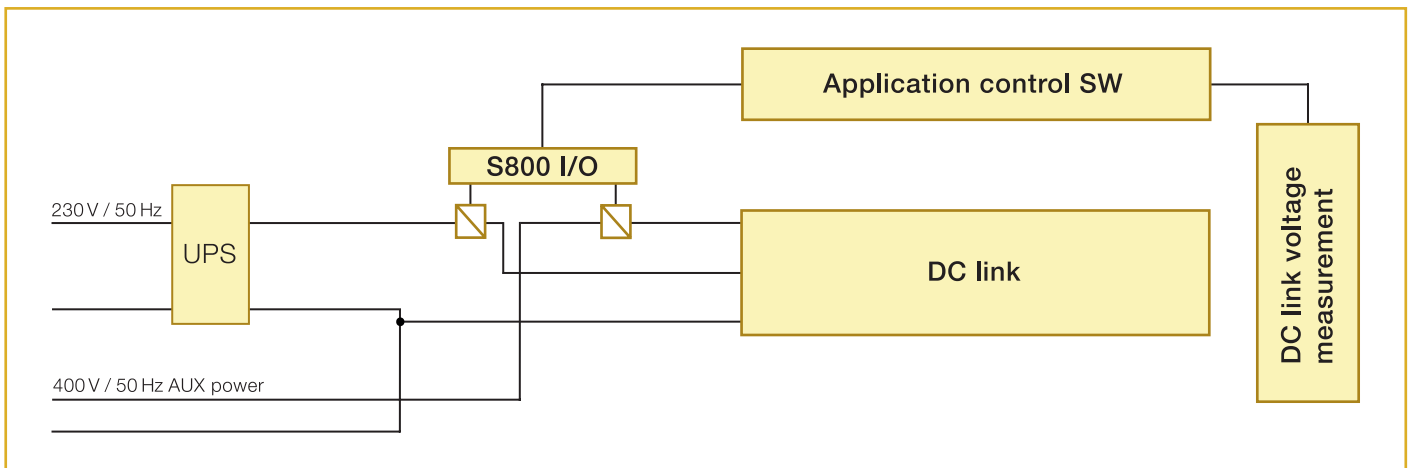
Benefits

- Maintains nominal DC link level during main power loss
- Improved availability
- Predefined / tested hardware and software packages for fast and easy upgrade on-site
- Suitable for different levels of safe line (UPS) voltages (110 - 260 V)

Overview of the standard charging concept and fast recovery charging option for the ABB ACS 6000 variable speed drive:



Standard charging concept



Fast recovery charging option

Requirements:

- External single phase UPS supply (110 - 260 VAC)
- Access to the drive for two working days (per ACS 6000)
- AMC34 control board with software version LAOH5100 or newer

Kit contents:

- One charging transformer with cables and adaptor plate
- Six resistors (40Ω each) with adaptor plate for installation and cabling
- Two relays, two compact starters and one varistor
- Instructions for mechanical installation and test protocol

Ordering information:

Fast recovery option upgrade can be ordered from local ABB service organizations using the following code: 3BHB016036R2604

For more information please contact:

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