

# Modernization for ACS800 single drives

Modular solution for your sustainable and digital future



ACS800 single drive modernization is a fast, flexible, and environment-friendly solution to extend the equipment's lifetime. The service modernizes the existing ACS800-07, -17 or -37 drive with digital state-of-the-art ACS880 technology without the need to fully replace the drive cabinet. This optimizes costs and minimizes the downtime of your operations.

**ACS800 to ACS880U single drive modernization** is an innovative solution to extend the lifetime of your drives, **enabling support and spare part availability** for years to come. The modernization is done in a modular way, allowing to change only those components that need to be changed. Thus, the service can be performed in the most challenging locations, **helping you to avoid long process shutdowns**.

This solution not only guarantees the **high availability** of applications, materials and support, but at the same time it contributes to **sustainability goals**. The modular concept of the solution makes it possible to keep the existing infrastructure and consequently to avoid premature scrapping and **reduce waste**. In addition, the **innovative packaging and optimized delivery minimize assembly time**.

The modernization solution gives you a technological advantage, as it provides **access to the digital services**, e.g., **ABB Ability™ Condition Monitoring**, that provides **insights into the health and performance** of the equipment to make better decisions and **prevent possible faults**.



**Improve the performance, usability and safety of your equipment**



**Enable your access to new digital services to identify emerging problems before they occur**



**The solution is tested and proven safe by standards and certifications, bringing resilience to the system**

# ACS800 Modernization

## Key benefits

### Lifetime extension

Production will not be at risk. Fast ACS800 modernization enables the simple and reliable solution to extend the lifetime of your drives.

### Technological advantage

The modernization solution provides access to new digital services, allowing you to identify irregularities before they become problems.

### Sustainability contribution

A modular concept allows changing only those components that need to be changed, which optimizes the total costs of modernization and supports the environment. The parts that do not need to be modernized yet can be stored onsite and used in the reactive modernization.

### Cost and resources optimization

Modernize your drive on time to prevent unexpected downtime and additional costs. This solution always enables support with applications, materials, and spare parts accessibility.

### Tailor-made and flexible service

The modernization can be customized to your needs by selecting from pre-engineered options and configurations. This solution can be transported to various places, regardless of the size, making the solution accessible even for the smallest, most challenging locations.

### Tested and standardized solution

Modernization of the asset is done in a tested and standardized way, supported by required certificates that make the process safe and reliable to use for your operations.

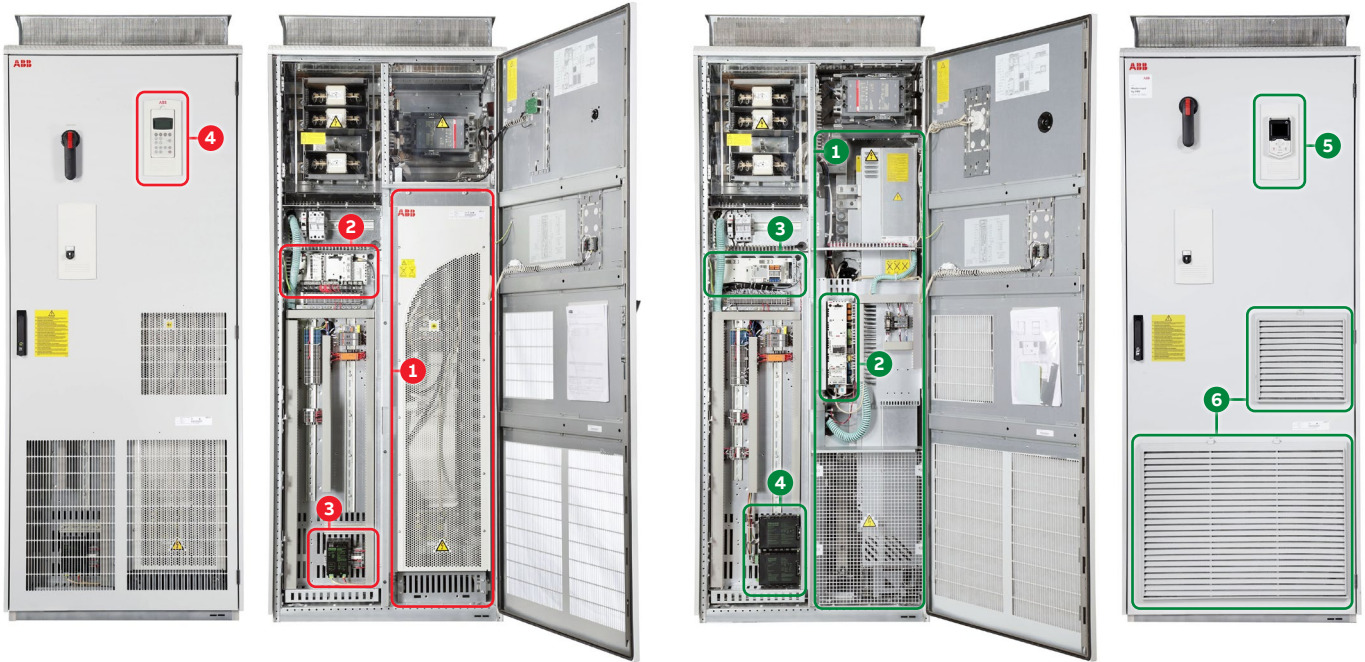


# ACS800 Modernization

## ACS800-07 R8 to ACS880U-07S8 R11 upgrade

**Before modernization**

**After modernization**



**Components changed:**

- 1 ACS800-04 drive module
- 2 RMIO control board
- 3 Power supply
- 4 CDP310 Control panel

**Updated and new components:**

- 1 ACS880-04 drive module
- 2 ZCU control board
- 3 FEA-03 extension board
- 4 Power supplies
- 5 Connectivity panel
- 6 IP22 door filters

**Released types and voltages**

Below table lists released type codes for corresponding ACS800 types

Product you have	Frame size	Power rating	Upgrade type available
ACS800-07/-U7	R5 to R6	70 to 255 kVA	ACS880U-07S8
ACS800-07/-U7	R7	140 to 260 kVA	ACS880U-07S8
ACS800-07/-U7	R8	260 to 610 kVA	ACS880U-07S8
ACS800-07	nxD4+nxR8i	610 to 3490 kVA	Available later
ACS800-17/-37	R6	60 to 120 kVA	ACS880U-17S8/-37S8
ACS800-17/-37	R7i+R7i	140 to 210 kVA	Available later
ACS800-17/-37	nxR8i+nxR8i	640 to 3310 kVA	Available later

# Service delivery process



## Check the drive type and process criticality

Review the compatibility of your equipment and check the need for a system update, for example in case a critical drive application or system has over 15 years of operation an upgrade is recommended.



## Assess the existing system and define the right solution with ABB

ACS800 single drives is a classic product with a full range of service solutions. Assessing the existing installation and options allows ABB specialists to identify your requirement, helping you decide on the right option.



## Scheduling the installation

Modernization is convenient and easy to integrate into your maintenance schedules, without causing additional maintenance breaks.



## Installation and commissioning with ABB

ABB modernization services are designed to minimize installation time. ABB-certified service engineers install and commission the new, modernized equipment to ensure a speedy process.



## Continue efficient operation

The drive system is now updated with the latest ACS880 hardware. All changed parts are supplied with a two-year warranty.

For more information, please contact your local ABB representative or visit

[new.abb.com/service/motion](https://new.abb.com/service/motion)

[new.abb.com/service/motion/modernization-and-performance-improvement-services/drives](https://new.abb.com/service/motion/modernization-and-performance-improvement-services/drives)

[new.abb.com/channel-partners/search](https://new.abb.com/channel-partners/search)

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