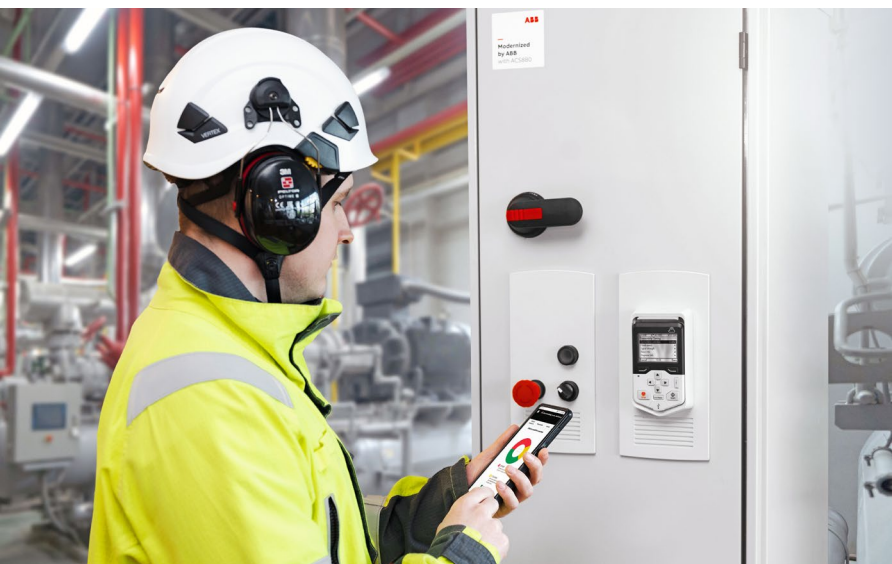


ABB MOTION SERVICES

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 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, **ensuring 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 **smart packaging** and **optimized delivery minimize assembly time**.

The modernization solution gives you a technological advantage, as it provides **access to the digital services**, such as **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 access to new digital services, such as remote monitoring, to identify emerging problems before they occur



The solution is tested and proven safe, bringing resilience to the system

ACS800 Modernization

Key benefits

Lifetime extension

Simple and reliable solution to extend the lifetime of your drives. Production will not be at risk.

Technological advantage

The modernization solution provides access to new digital services, allowing you to identify irregularities before reliability, productivity and safety are impacted.

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 ensures continued support and access to spare parts.

Tailor-made and flexible service

The modernization can be customized to your needs by selecting from pre-engineered options and configurations. The compact solution can be transported even to the smallest, most challenging locations.

Tested and standardized solution

The modernization is done in a tested and standardized way, supported by required certificates that make the process safe and reliable.



ACS800 Modernization

ACS800-07 R8 to ACS880U-07S8 R11 upgrade

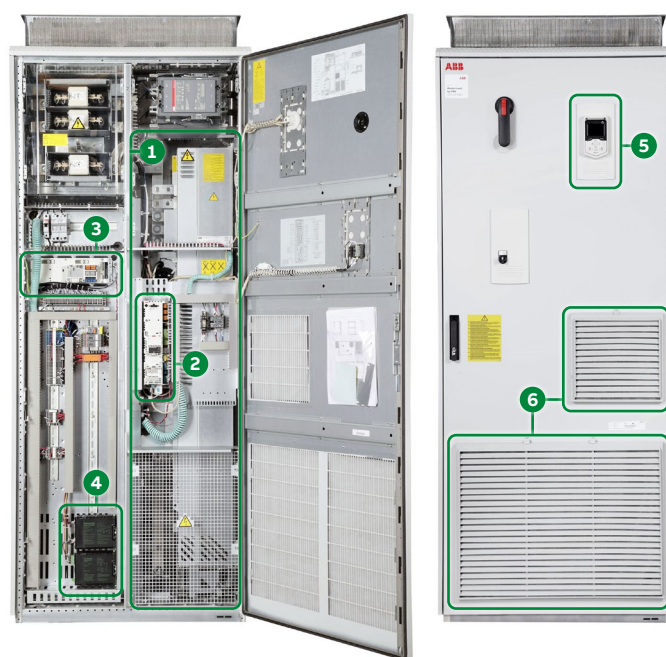
Before modernization



Components changed:

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

After modernization



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

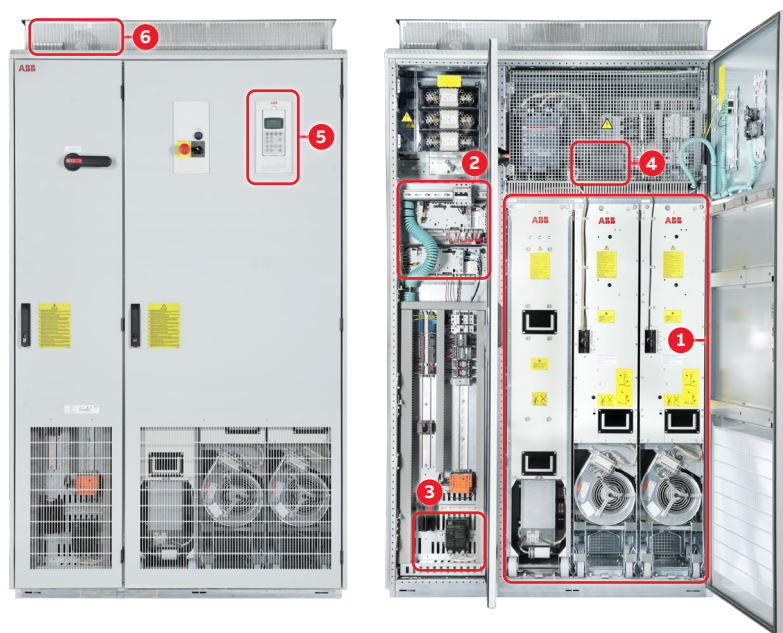
Below table lists released type codes for corresponding ACS800 types

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	ACS880U-07S8
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	210 to 3310 kVA	ACS880U-17S8/-37S8

Example of base package upgrade

ACS800-17/37 R8i+R8i to
ACS880U-17S8/37S8 R8i+R8i upgrade

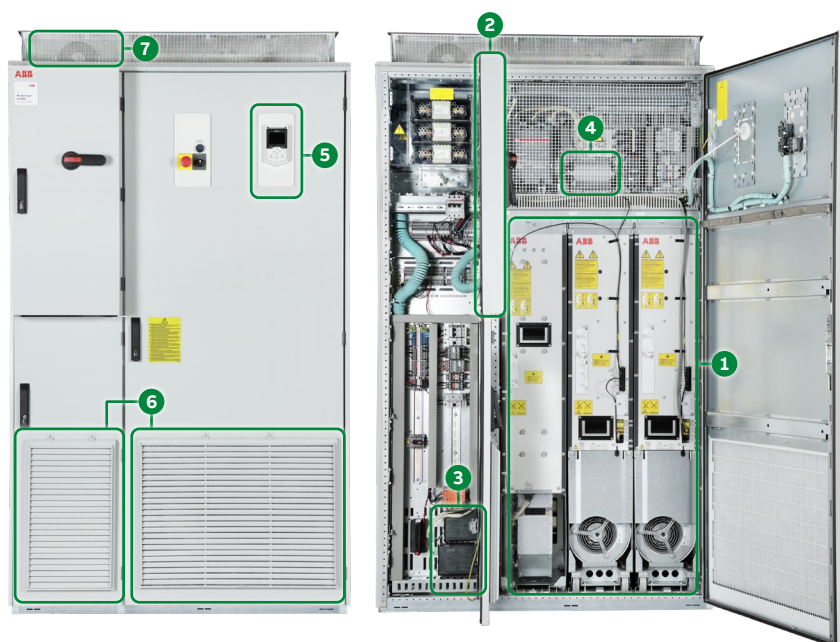
Before modernization



Components changed:

- 1 ACS800 drive modules
- 2 RMIO control boards
- 3 Power supply
- 4 Charging circuit
- 5 CDP310 Control panel
- 6 Roof fans

After modernization



Updated and new components:

- 1 New ACS880 drive modules
- 2 New UCU control boards
- 3 Power & buffer supplies
- 4 New charging circuit
- 5 Bluetooth® control panel
- 6 IP22 door filters
- 7 New roof fan

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/modernization-and-performance-improvement-services/drives

new.abb.com/channel-partners/search

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB. Copyright© 2023 ABB. All rights reserved.