

Upgrade offering for ACS6000

Embedding state of the art control into a proven design



ABB offers a variety of services to maintain performance, increase reliability, improve operations and upgrade ACS6000 converters to the latest technology. This helps maximize long-term value for your asset using converter solutions that fit your needs.

The right service at the right time

When converters reach half of their expected design lifetime (approximately 10 years), some maintenance work is recommended to keep the converter working to a high standard. The additional upgrade service can improve performance and further increase the reliability of the converter.

ABB has designed the next generation Control Upgrade (BCU-55) service for the ACS6000 that

integrates state-of-the-art hardware into the drive and adds new features.

Synergies of service offerings

By combining preventive maintenance, the next generation Control Upgrade and further services, the converter can be transformed into more technically advanced state than when it originally left the factory. This helps optimize costs and reduce planned downtime and maintenance efforts.

Our promise for the next generation Control Upgrade service



Improved performance

The state-of-the-art control platform unlocks potential for new features, which can improve the overall performance of your drive.



Ongoing operational reliability

With upgrade services, your converter continues to operate with the highest reliability provided by the latest control platform and replacement of aging components.



Optimized maintenance costs

Ease of installation and commissioning allows for shorter maintenance windows.



Guaranteed life cycle services

Upgrading to the latest hardware and software guarantees the best support and prolongs the life of your equipment.



Drive topologies and features

Drive configurations	Single drive
Topology	Front end: Line Supply Unit
Motor type	Induction motor
Cooling type	Water-cooled
Fieldbus (may require adaptations on over-riding control system)	DDCS Modbus RTU Profibus DP Ethernet/IP Modbus TCP ProfiNet DeviceNet CANopen ControlNet EtherCAT PowerLink
Safety Features	Emergency-Off Emergency-stop (optional) Safe torque off (optional) Prevention of unexpected startup
Control functions	Operation point depending usage of the following two control methods: <ul style="list-style-type: none"> • Direct-torque control (DTC) • Model Predictive Pulse Pattern Control (MP³C)
ABB Ability™ Digital Services	ABB Ability™ Condition Monitoring for drives ^{*)} • Remote Assistance
Encoder	TTL pulse encoder HTL pulse encoder SSI absolute encoders
Standards	CE Others on request for project-specific spot approval

^{*)} Ability™ services for ACS6000 Modernized with BCU-55 and for ACS6080 will be launched end of Q2 2020.

Upgrading your ACS6000

Packaging options

ABB has created a range of upgrade packages for you to select from according to your specific needs.

Upgrades
+
Preventive Maintenance
+
Spares

- Upgrade service to install latest technology and hardware
- Selected preventive maintenance package
- Predefined spare part package options delivered with control upgrade

Upgrades
+
Preventive Maintenance
+
Spares
+
Engineering & Consultancy

- Upgrade service to install latest technology and hardware
- Selected preventive maintenance package
- Predefined spare part package options delivered with control upgrade
- Engineering and consultancy services to optimize the drive system or to increase reliability






Upgrades
+
Preventive Maintenance
+
Spares
+
Engineering & Consultancy
+
Drive Care

- Upgrade service to install latest technology and hardware
- Selected preventive maintenance package
- Predefined spare part package options delivered with control upgrade
- Engineering and consultancy services to optimize the drive system or to increase reliability
- Drive Care service agreements to provide ABB Ability™ services



Overview of ACS6000 life cycle services

Available life cycle services for ACS6000, and their benefits to you.

Service offering	Increases uptime 	Improves operational reliability 	Increases performance 	Enables ABB Ability™ services 	On-site work 
Control Upgrade (BCU-55)	X	X	X	X	X
Gate Unit upgrade	X	X			X
Safe torque off (STO) upgrade	X		X		X
Fast recovery upgrade	X	X	X		X
Arc Guard System™ Safety upgrade	X	X	X		X
Cubicle cooling upgrade		X			X
Manual output isolator upgrade	X				X
Local DC Link reliability upgrade	X	X			X
WCU Fast connectors upgrade		X			X
Power upgrade			X		
Spare parts package	X				
Preventive maintenance	X	X			X
Replacement with ACS6080	X	X	X	X	X
Engineering and Consultancy services	X	X	X		
Drive Care service agreements	X	X		X	

For more information please contact your local ABB representative or visit myABB – the external business portal for quick and easy self-service:

www.abb.com/myabb
new.abb.com/drives

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