

Valid for drives manufactured or maintained in 2017 onwards

Recommended maintenance intervals and component replacements are based on specified operational and environmental conditions. ABB recommends annual drive inspections to ensure the highest reliability and optimum performance. More detailed maintenance information can be found in maintenance instructions, product manuals and on the Internet.

www.abb.com/drives

NOTE! Long term operation near the maximum specified ratings or environmental conditions may require shorter maintenance intervals for certain components. Check the device specific technical specifications in the relevant hardware manual and consult your local ABB Service for maintenance recommendations at:

www.abb.com/searchchannels

Legend

- I Inspection** (inspection and maintenance action if needed)
- P Performance** of on/off-site work (commissioning, tests, measurements or other work)
- R Replacement**

Recommended annual actions by the user

Connections and environment	
Cabinet door filters IP54	R
Quality of supply voltage	P
Spare parts	
Spare parts	I
DC circuit capacitors reforming for spare modules and spare capacitors	P
Inspections by user	
IP22 and IP42 air inlet and outlet meshes	I
Tightness of terminals	I
Dustiness, corrosion and temperature	I
Heat sink cleaning	I

Cooling	Years from start-up						
	3	6	9	12	15	18	21
Fans, IP21 frames R0 to R9							
Main cooling fans R0-R5		R		R		R	
Main cooling fans R6-R9 LONGLIFE			R			R	
Auxiliary cooling fan for circuit boards, R4v2 89A/IP21 & R4v2 77A/IP21		R		R		R	
Auxiliary cooling fan for circuit boards, only R5 - R9 LONGLIFE			R			R	
Fans, IP55 frames R0 to R9							
Main cooling fans R0-R5		R		R		R	
Main cooling fans R6-R9 LONGLIFE			R			R	
Auxiliary cooling fan for circuit boards R0-R2	R	R	R	R	R	R	R
Auxiliary cooling fan for circuit boards R3, R4 LONGLIFE			R			R	
Auxiliary cooling fan for circuit boards R4v2		R		R		R	
Auxiliary cooling fan for circuit boards R5-R9 LONGLIFE			R			R	
Second Auxiliary cooling fan, only R8 and R9 LONGLIFE			R			R	
Fans, ACH580-31, ACQ580-31 frames R3, R6, R8							
Main cooling fans LONGLIFE			R			R	
Auxiliary cooling fans LONGLIFE			R			R	
Fans, frames R10 and R11							
Main cooling fans*			R			R	
Circuit board compartment cooling fans LONGLIFE			R			R	
Cabinet cooling fan R6 to R9							
Cabinet cooling fan, door (IP21, IP42, IP54)			R			R	
Cabinet cooling fan R10 to R11							
Internal LONG-LIFE 50Hz			R			R	
Internal LONG-LIFE 60Hz		R		R		R	
Door LONG-LIFE 50 Hz			R			R	
Door LONG-LIFE 60Hz			R			R	
IP54 50Hz*			R			R	
IP54 60Hz *		R		R		R	
Cabinet cooling fan IP54			R			R	

*Fan has been always "LONG-LIFE" type

Maintenance Schedule

**ACS580-01, -04 & ACH580-01, -04, -31, -34 & ACQ580-01, -04, -31, -34
ACS580-07, ACH580-07, ACQ580-07 Cabinet Drives**

Valid for drives manufactured or maintained in 2017 onwards

Aging	Years from start-up						
	3	6	9	12	15	18	21
Common, control panel battery							
Control panel battery			R			R	
Cabinet auxiliary 24VDC power supplies and buffers**				R			
Frequency converter frames R0 to R9							
CCU control unit				R			
Frequency converter frames R6 to R9 (Except R6 ACH580-31 & ACQ580-31)							
Flat ribbon cables				R			
DC circuit electrolytic capacitors and discharging resistors			R			R	
ZINT, ZPOW, ZINP, QINT module internal circuit boards				R			
Frequency converter frames R10 to R11							
Flat ribbon cables				R			
DC circuit electrolytic capacitors and discharging resistors			R			R	
BPOW / ZPOW module internal circuit board				R			
BFPS, BGDR, ZBDR, ZINT, BINT module Internal circuit boards				R			
CCU control unit, ZCU control unit ACH580-34 & ACQ580-34 R11				R			

** Check amount and types of Auxiliary power supplies from cabinet or manufactured BOM.

Maintenance Schedule
ACS580-01, -04 & ACH580-01 & ACQ580-01 Drives
ACS580-07 Cabinet Drives

Valid for drives manufactured 2016 or before

Recommended maintenance intervals and component replacements are based on specified operational and environmental conditions. ABB recommends annual drive inspections to ensure the highest reliability and optimum performance. More detailed maintenance information can be found in maintenance instructions, product manuals and on the Internet.

www.abb.com/drives

NOTE! Long term operation near the maximum specified ratings or environmental conditions may require shorter maintenance intervals for certain components. Check the device specific technical specifications in the relevant hardware manual and consult

www.abb.com/searchchannels

Legend

- I Inspection** (inspection and maintenance action if needed)
- P Performance** of on/off-site work (commissioning, tests, measurements or other work)
- R Replacement**

Recommended annual actions by the user	
Connections and environment	
Quality of supply voltage	P
Spare parts	
Spare parts	I
DC circuit capacitors reforming for spare modules and spare capacitors	P
Inspections by user	
Tightness of terminals	I
Dustiness, corrosion and temperature	I
Heat sink cleaning	I

Cooling	Years from start-up						
	3	6	9	12	15	18	21
Fans, IP21 frames R0 to R9							
Main cooling fans		R		R		R	
Auxiliary cooling fan for circuit boards, only R5 to R9	R	R	R	R	R	R	R
Fans, IP55 frames R0 to R9							
Main cooling fans		R		R		R	
Auxiliary cooling fan for circuit boards	R	R	R	R	R	R	R
Second Auxiliary cooling fan, only R8 and R9	R	R	R	R	R	R	R
Fans, frames R10 and R11							
Main cooling fans			R			R	
Cooling fans for circuit board compartment		R		R		R	
Cabinet cooling fan							
Internal 50Hz		R		R		R	
Internal 60Hz	R	R	R	R	R	R	R
Door 50 Hz		R		R		R	
Door 60Hz		R		R		R	
IP54 50Hz			R			R	
IP54 60Hz		R		R		R	

Maintenance Schedule
ACS580-01, -04 & ACH580-01 & ACQ580-01 Drives
ACS580-07 Cabinet Drives

Valid for drives manufactured 2016 or before

Aging	Years from start-up						
	3	6	9	12	15	18	21
Common, control panel battery							
Control panel battery			R			R	
Frequency converter frames R0 to R5							
CCU control unit				R			
Frequency converter frames R6 to R9							
Flat ribbon cables				R			
DC circuit electrolytic capacitors and discharging resistors			R			R	
ZINT, ZPOW, ZINP module internal circuit boards				R			
CCU control unit				R			
Frequency converter frames R10 to R11							
Flat ribbon cables				R			
DC circuit electrolytic capacitors and discharging resistors			R			R	
BPOW / ZPOW module internal circuit board				R			
BFPS, BGDR, ZBDR, ZINT module internal circuit boards				R			
CCU control unit				R			