

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 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, 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-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

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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 main interface board, ZPOW power supply board, ZINP input protection board				R			
CCU control unit				R			
Frequency converter frames R10 to R11							
Flat ribbon cables				R			
DC circuit electrolytic capacitors and discharging resistors			R			R	
BFPS, BGDR, ZBDR, ZINT, BINT, BPOW, ZPOW module circuit boards				R			
CCU control unit				R			

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

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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 main interface board, ZPOW power supply board, ZINP input protection board				R			
CCU control unit				R			
Frequency converter frames R10 to R11							
Flat ribbon cables				R			
DC circuit electrolytic capacitors and discharging resistors			R			R	
BFPS, BGDR, ZBDR, ZINT module internal circuit boards				R			
BPOW / ZPOW power supply boards				R			
CCU control unit				R			