

## Maintenance Schedule

### ACS880-01,-01XT,-04,-04F,-04XT,-11,-14,-31,-34 Single drives and modules

### ACS880-07,-17,-37 Cabinet-build single drives

Valid for drives manufactured or maintained in 2017 onwards.



ABB Oy, Drives Service

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](http://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](http://www.abb.com/searchchannels)

#### Legend

- I Inspection** (visual 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	Annually
<b>Connections and environment</b>	
Cabinet door filters IP54	R
Quality of supply voltage	P
<b>Spare parts</b>	
Spare parts	I
DC circuit capacitors reforming, spare modules and spare capacitors	P
<b>Inspections by user</b>	
IP22 and IP42 air inlet and outlet meshes	I
Tightness of terminals	I
Dustiness, corrosion and temperature	I
Heat sink cleaning	I
<b>Other</b>	
ABB-SACE Air circuit breaker maintenance	I

Cooling	Years from start-up						
	3	6	9	12	15	18	21
<b>Main cooling fan</b>							
Main cooling fan (R1 to R9) speed controlled LONG-LIFE			R			R	
Main cooling fan (R10 and R11) speed controlled*			R			R	
Main cooling fan (R8i and D8T) speed controlled*			R			R	
Main cooling fan (D7T) speed controlled LONG-LIFE			R			R	
Main cooling fan (BLCL) direct online 50 Hz LONG-LIFE			R			R	
Main cooling fan (BLCL) direct online 60 Hz LONG-LIFE		R		R		R	
<b>Aux cooling fan</b>							
Auxiliary cooling fan for circuit boards (R1 to R9) LONG-LIFE			R			R	
Auxiliary cooling fan IP55 (R8 and R9) LONG-LIFE			R			R	
Circuit board compartment cooling fans (R10, R11) LONG-LIFE			R			R	
Internal cooling fan for circuit boards (R8i and D8T) LONG-LIFE			R			R	
<b>Cabinet cooling fan</b>							
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	
<b>xSIN filter cooling fan</b>							
Filter cooling fan LONG-LIFE			R			R	

\*Fan has been always "LONG-LIFE" type

Aging	Years from start-up						
	3	6	9	12	15	18	21
<b>Common, control panel and control unit batteries</b>							
ZCU/BCU control unit battery (Real-time clock)		R		R		R	
Control panel battery (Real-time clock)			R			R	
<b>Frequency converter R1 to R9</b>							
Flat ribbon cables (R6 to R9)				R			
DC circuit electrolytic capacitors (R6 to R9) and discharging resistors			R			R	
ZINT, ZPOW, ZINP, QINT (R6 to R9) module internal circuit boards				R			
ZCU control unit				R			

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Aging	Years from start-up						
	3	6	9	12	15	18	21
<b>Drive frame sizes R10 and R11</b>							
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			
ZCU control unit				R			
<b>Inverter module, IGBT Supply module R8i</b>							
DC circuit electrolytic capacitors (R8i) and discharging resistors			R			R	
BDPS, BFPS module internal power supply boards				R			
BINT, BGDR, BDFC module internal circuit boards				R			
Flat ribbon cables (when boards replaced)				R			
BCU control unit				R			
<b>Supply modules D7T and D8T</b>							
BDPS, BFPS module internal power supply boards				R			
BINT, BTDR, BPCB, BDFC module internal circuit boards				R			
Flat ribbon cables (when boards replaced)				R			
BCU control unit				R			
<b>Filter unit capacitors</b>							
BLCL capacitor			R			R	
NSIN capacitor			R			R	
<b>Drive frame size R11 (-14, -34)</b>							
Charging circuit contactor			R			R	

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**Legend**

- I Inspection** (visual 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	Annually
<b>Connections and environment</b>	
Cabinet door filters IP54	R
Quality of supply voltage	P
<b>Spare parts</b>	
Spare parts	I
DC circuit capacitors reformatting, spare modules and spare capacitors	P
<b>Inspections by user</b>	
IP22 and IP42 air inlet and outlet meshes	I
Tightness of terminals	I
Dustiness, corrosion and temperature	I
Heat sink cleaning	I
<b>Other</b>	
ABB-SACE Air circuit breaker maintenance	I

Cooling	Years from start-up						
	3	6	9	12	15	18	21
<b>Main cooling fan</b>							
Main cooling fan (R1 to R9) speed controlled		R		R		R	
Main cooling fan (R10 and R11) speed controlled			R			R	
Main cooling fan (QLCL) speed controlled			R			R	
Main cooling fan (R8i and D8T) speed controlled			R			R	
Main cooling fan (D7T) speed controlled		R		R		R	
Main cooling fan (BLCL) direct online 50 Hz		R		R		R	
Main cooling fan (BLCL) direct online 60 Hz		R		R		R	
<b>Aux cooling fan</b>							
Auxiliary cooling fan for circuit boards (R1 to R9)		R		R		R	
Auxiliary cooling fan IP55 (R8 and R9)		R		R		R	
Circuit board compartment cooling fans (R10, R11)		R		R		R	
Fans for circuit board compartment (-14,-34) speed controlled			R			R	
Internal cooling fan for circuit boards (R8i and D8T)		R		R		R	
<b>Cabinet cooling fan</b>							
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	
<b>xSIN filter cooling fan</b>							
Filter cooling fan		R		R		R	

Aging	Years from start-up						
	3	6	9	12	15	18	21
<b>Common, control panel and control unit batteries</b>							
ZCU/BCU control unit battery (Real-time clock)		R		R		R	
Control panel battery (Real-time clock)			R			R	
<b>Frequency converter R1 to R9</b>							
Flat ribbon cables (R6 to R9)				R			
DC circuit electrolytic capacitors (R6 to R9) and discharging resistors			R			R	
ZINT, ZPOW, ZINP, QINT (R6 to R9) module internal circuit boards				R			
ZCU control unit				R			

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Aging	Years from start-up						
	3	6	9	12	15	18	21
<b>Drive frame sizes R10 and R11</b>							
Flat ribbon cables				R		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			
ZCU control unit				R			
<b>Inverter module, IGBT Supply module R8i</b>							
DC circuit electrolytic capacitors (R8i) and discharging resistors			R			R	
BDPS, BFPS module internal power supply boards				R			
BINT, BGDR, BDFC module internal circuit boards				R			
Flat ribbon cables (when boards replaced)				R			
BCU control unit				R			
<b>Supply modules D7T and D8T</b>							
BDPS, BFPS module internal power supply boards				R			
BINT, BTDR, BPCB, BDFC module internal circuit boards				R			
Flat ribbon cables (when boards replaced)				R			
BCU control unit				R			
<b>Filter unit capacitors</b>							
BLCL capacitor			R			R	
NSIN capacitor			R			R	
<b>Drive frame size R11 (-14, -34)</b>							
Charging circuit contactor			R			R	