

## ACS800 single drive and multidrive

For drives manufactured or maintained 2017 and onwards.

Drives manufactured or maintained 2016 or before, refer to 4FPS10000223379.

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					
Cooling liquid pipe connections		I					
<b>Spare parts</b>							
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					
Main contactor maintenance		I					
ACS800-14LC, -17LC, -34LC, -37LC, -204LC, -207LC Smoke detector		I					
<b>Recommended every 2nd years actions by the user</b>		Every 2nd year					
<b>Cooling, liquid cooling units</b>							
Check pH of coolant		P					
Add coolant corrosion inhibitor		P					
Heat exchanger cleaning		P					
Expansion tank air pressure		P					
<b>Cooling</b>							
	<b>Years from start-up</b>						
	<b>3</b>	<b>6</b>	<b>9</b>	<b>12</b>	<b>15</b>	<b>18</b>	<b>21</b>
<b>Main cooling fan</b>							
ACS800-01, -U1, -04, -U4 R2 - R6, ACS800-104 R2i - R5i (IP20, IP21, IP55)	I	R	I	R	I	R	I
ACS800-02, -U2 R7 and R8 50/60Hz	I	R	I	R	I	R	I
ACS800-02, -U2 enclosure extension cooling fan R7 and R8 50/60Hz	R	R	R	R	R	R	R
ACS800-04, -U4, -04M R7 and R8 50/60Hz	I	R	I	R	I	R	I
ACS800-02, -04, -U4, -04M R7 and R8 50/60Hz LONGLIFE****	I	I	R	I	I	R	I
Cooling fan for ACS800-11, -U11, -31, -U31 R5 - R6 (IP20, IP21, IP55)	I	R	I	R	I	R	I
ACS800-104/-204 R7i - R8i LONGLIFE	I	I	R	I	I	R	I
ACS800-304, -704	I	R	I	R	I	R	I
ACS800-304, -704 +V992 LONGLIFE	I	I	R	I	I	R	I
ALCL filter module LONGLIFE	I	I	R	I	I	R	I
ACS800-404, TSU	I	R	I	R	I	R	I
<b>Internal cooling fan for circuit boards</b>							
ACS800-01, -U1, -04, -U4 R2 - R6, ACS800-104 R2i - R5i (IP20, IP21, IP55)	R	R	R	R	R	R	R
ACS800-11, -U11, -31, -U31 R5 - R6 (IP20, IP21, IP55)	R	R	R	R	R	R	R

Cooling	Years from start-up						
	3	6	9	12	15	18	21
<b>Cabinet cooling fan</b>							
IP22-IP42 Roof fan LONGLIFE	I	I	R	I	I	R	I
IP22-IP42 Door fan LONGLIFE	I	I	R	I	I	R	I
IP54 Roof fan LONGLIFE	I	I	R	I	I	R	I
Internal cooling fan LONGLIFE	I	I	R	I	I	R	I
Cooling, liquid cooled units	Years from start-up						
	3	6	9	12	15	18	21
Cooling fans ACS800LC (-204LC, -304/704LC)	I	I	R	I	I	R	I
Cooling fans ACS800LC (-104LC), 60Hz LONGLIFE	I	I	R	I	I	R	I
Cooling fans ACS800LC (-104LC), 50Hz	I	R	I	R	I	R	I
Cooling fans ACS800LC (-204LC, -304/704LC), 60Hz	I	R	I	R	I	R	I
Cabinet cooling fans ACS800LC 50/60Hz LONGLIFE	I	I	R	I	I	R	I
Roof cooling fans ACS800LC 50/60Hz	I	R	I	R	I	R	I
Cooling liquid pump assembly	I	R	I	R	I	R	I
Change coolant in internal cooling circuit	I	I	R	I	I	R	I
Expansion tank	I	I	R	I	I	R	I
Aging	Years from start-up						
	3	6	9	12	15	18	21
Electrolytic capacitors			R			R	
Converter electronic boards: APOW, AFIN, AFPS, AGPS, CMRB, CMIB, DSMB, DSAB, DSCB			R			R	
Cabinet Auxiliary Power Supplies***			R			R	
Memory backup battery replacement in APBU-xx unit		R		R		R	
ALCL filter capacitor 380 - 415V supply network**		I	I/R	I	I	I/R	I
ALCL filter capacitor 460V - 690V supply network**		I/R	I	I/R	I	I/R	I
Smoke detector for ACS800-14LC, -17LC, -34LC, -37LC, -204LC, -207LC Smoke detector			R			R	
Connections	Years from start-up						
	3	6	9	12	15	18	21
AINT+ flat cables, CINT, NRED, discharging resistors			R			R	
Power cable connections and quick connectors of the supply, inverter and converter modules (ACS800-x7 and ACS800 md)	I	I	I	I	I	I	I
Improvements	Years from start-up						
	3	6	9	12	15	18	21
Based on product notes	I	I	I	I	I	I	I

\*) DOL Cooling fan= Direct on line fan

\*\*) If filter is not replaced, the filter shall be inspected/measured after 3 years from the last inspection.

\*\*\*) Check amount of Auxiliary power supplies from cabinet or manufactured BOM.

\*\*\*\*) ACS800-02/04/U4 R7-frame Long Life Fan after 06/2019