



Maintenance Schedule

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ABB Oy, Drives Service	2014-01-22	en	G	1 (2)
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Megastar W Drives

Legend:

Replacement of component	R
Inspection (visual inspection, correction and replacement if needed)	I
Performance of on-site work (commissioning, tests, measurements, etc.)	P

	Years from start-up or from part replacement																				
	0	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Start-up	P																				
Cooling																					
➤ Ion compound and mech. filters		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
➤ Cooling fan of SADT39POWP		R	I	I	R	I	I	R	I	I	I	I	I	R	I	I	R	I	I	R	I
➤ Control rack fan (option)*1		R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I
➤ Cooling pump seals		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
➤ Cooling pumps		I	I	R	I	I	I	I	I	I	I	R	I	I	I	I	I	I	I	R	I
➤ 6 mm pipes of the snubber circuit		R	-	I	-	I	-	R	-	I	-	I	-	R	-	I	-	I	-	R	-
➤ 90D-connectors and pipes for chopper- and DC- chokes		I	I	R	I	I	I	I	I	I	R	I	I	I	I	I	I	I	I	R	I
➤ O-ring kit for fast connectors		I	I	R	I	I	I	I	I	I	R	I	I	I	I	I	I	I	I	R	I
➤ Heat exchanger		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Aging																					
➤ Battery of CPU board (4.x ->)*1		R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I
➤ Battery of UPS (separately agreed)		R	I	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R	I
➤ Electrolytic capacitors (PA, PAU, MP, MN, SADT300)		R	I	I	I	I	I	R	I	I	I	I	I	R	I	I	I	I	I	R	I
➤ Aux. power supply board SADT33POW and TIS300*1		I	I	R	I	I	I	I	I	I	R	I	I	I	I	I	I	I	I	R	I
➤ SADT39POW(P)		I	I	I	I	I	I	I	I	I	R	I	I	I	I	I	I	I	I	I	I
➤ Chopper capacitors, AVX-W		I	I	I	I	R	I	I	I	I	I	I	I	I	I	R	I	I	I	I	I
➤ Auxiliary chopper capacitors		I	I	R	I	I	I	I	I	I	I	R	I	I	I	I	I	I	I	R	I
➤ Snubber capacitors		R	-	I	-	I	-	R	-	I	-	I	-	R	-	I	-	I	-	R	-
➤ Discharge relays		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
➤ DC capacitors (CBU)		I	I	R	I	I	I	I	I	I	R	I	I	I	I	I	I	I	I	R	I
➤ RBU/fibre optics, snubber caps and pulse amplifiers		I	I	R	I	I	I	I	I	I	R	I	I	I	I	I	I	I	I	R	I
Connections & Surroundings																					
➤ Fiber optic cables*2		P	I	R	I	P	I	P	I	P	I	R	I	P	I	P	I	P	I	R	I
➤ Cable connections		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
➤ Dustiness, corrosion and temperature		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
➤ Quality of supply voltage		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Improvements																					
➤ AMC- based control unit *3																					
➤ Upgrade of SADT39POW unit		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
➤ 5 um filter for cooling system		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
➤ Extra cooling for inverter unit		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
➤ Based on product notes		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Control Upgrade																					
➤ PCBs, Power supplies		P	I	I	I	I	I	R	I	I	I	I	I	P	I	I	I	I	I	R	I
➤ Door Fan		R	I	I	I	I	I	R	I	I	I	I	I	R	I	I	I	I	I	R	I
➤ Filter *4		R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I
➤ Updates/Improvements*5		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Measurements																					
➤ Basic measurements with aux. supply voltage		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
➤ Measurements of specified components of converter		P		P		P		P		P		P		P		P		P		P	
Spare Parts																					
➤ Spare Parts*6		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I

Specifications subject to change without notice.

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Note! Recommended service intervals and component replacements are based on the operational environment specified by ABB. Please refer to service instructions and product manuals for more information or go to www.abb.com/driveservices.

***Note!** All previous vector control versions, vc2, vc4, vc5 and vc6 can be upgraded to AMC based control platform.

*1 Not required for units with Control-Upgrade

*2 FO-cables are replaced with Control-Upgrade

*3 Contact local ABB for information for control upgrade of SAMI Megastar W

*4 Depending on the ambient conditions filter mat might need to be replaced yearly/every second year.

*5 Improvements and updates are based on SW/HW development

*6 In-case of control upgrade all spare-parts should be listed and obsolete parts returned/disposed.