

ABB DASA110

ASTAT Power Supply Module

Manufacturer	ABB
Model / order number	DASA110 / 3ASC25H271
Product identification	Power Supply Module
System / family context	ASTAT - DARA 1000 / 1001 / 1010

Verified scope

ABB lists DASA110 under order 3ASC25H271 for the DARA1000, DARA1001 and DARA1010 assemblies. The attached original pages provide the spare-part identity and DC circuit checks.

The stated 17-33 V DC and 55-140 V DC ranges are troubleshooting measurement limits. They are not AC input ratings or adjustable-output specifications.

Engineering checks before replacement

- Match DASA110 and the complete 3ASC25H271 nameplate identity and hardware revision.
- Confirm the installed DARA assembly, X2 terminal mapping and F1 / F2 circuit protection.
- Identify whether the 110 V DC circuit is grounded or floating before interpreting measurements.
- Use qualified personnel and the approved isolation, inspection and commissioning procedure.

Official ABB source reference

ABB ASTAT manual - 3BSE 017 422 R0008EN

System version AST10_054 / 10_054; original pages 210 and 224 follow.

Open original ABB manufacturer manual

This cover is an independent Sales PLC reference, not a manufacturer-issued datasheet. The following manufacturer pages retain their original text, layout and page numbering.

Request model verification or a quotation

info@amikon.cn | +86 18020776786

www.salesplcauto.com

9.3. 24 V DC voltage

Check the MCB -F1 of DASA 110.

If tripped, disconnect the consumers of 24 V DC acc. to the ASTAT circuit diagram at end of this manual, and try to restore the MCB. Measure 24 V DC between (DASA 110)-X2:2 (plus) and :4 (minus). The value must be between 17 V and 33 V.

If this is impossible to restore, the fault might be internal in DASA 110.

Connect the consumers one by one, until the consumer that causes the trip is found, and causes a trip again.

If no consumer causes a new trip, check all consumers for internal faults.

The board DAPC 100 has LED 5 V OK (green).

The board DAPU 100 has LED 5 V OK (green).

The board DATX 110 has LED 5 V OK (green).

The board DATX 130 has a green LED for 15 V OK.

The board DATX 120 has LED 5 V OK (green); this board has mostly a different 24 V DC supply.

24 V DC is directly grounded, and can always be measured to ground.

9.4. 110 V DC voltage

Check the MCB -F2 of DASA 110. Check the LED 110 V OK (green) on DATX 110. In case there is a floating system for 110 V, check the LED Earth fault (red) on DATX 110.

If the MCB is tripped or there is an earth fault, disconnect the consumers of 110 V DC acc. to the ASTAT circuit diagram at end of this manual by opening the yellow separators on DATX 110, and try to restore the MCB. Measure 110 V DC between (DASA 110)-X2:6 (plus) and :7 (minus). The value must be between 55 V and 140 V.

If this is impossible to restore, the fault might be internal in DASA 110.

Connect the consumers one by one, until the consumer that causes the trip is found, and causes a trip again.

110 V DC is directly grounded or floating.

Category	Type	Description	Identity	Used where	
Fuses	SIBA / Gould	2 A FF, 6 * 32 mm, 600 700V	3ASC567201H12 3ASC567201H23	DASD 001 ... 105 (6x) (3x) DASD 145, 146,147 (3x) DASD 151 ... 157 (3x) DASG 222, DASG 223 (3x)	
	SIBA	10 A , 6 * 32 mm, 600V	FAR7009463 302-8800	DASD 106, 107, 126, 127 , 001, 002, 003, 101, 102, 103, 104, 105, 145, 146, 147 (3x)	
	BUSSMAN	10 A F, 10,3 * 38 mm, 600 V	3BSC770010R301	DASG 218, DASG 219, DASG 220, DASG 221, DASG 118, DASG 119, DASG 121 (3x)	
	HRC-fuse	25 A, 10,3 * 38 mm, 690 V	RS314-4838	DASD 222, DASG 223 (3x)	
	From 2007 To 2007	Fast fuse link	690 V AC, 900 A	G3MÜF02/900A/690V	DASD 146 (3x)
	BUSSMAN 3BKN/80 170M6546	80 mm 1000 V AC, 800 A	3ASC567501H10	DASD 106, 126, 146, 156 (3x)	
	From 2007 To 2007	Fast fuse link	690 V AC, 1250 A	G3MÜF02/1250A/690V	DASD 147 (3x)
	BUSSMAN 3BKN/80 170M6549	80 mm 1000 V AC, 1100 A	3ASC567501H16	DASD 107, 108, 127, 147, 157 (3x)	
Cables	-	Firing Pulse cable, 2 m	3ASC262721H20	All ASTAT with DASD 1xx	
	-	Firing Pulse cable 3 m	3ASC262721H30	ASTAT with Double Bridges	
	-	Firing Pulse cable 0,7 m	3ASC262721H7	DARA 1001, 1010, DASD 0xx	
Overvoltage protection	Crouzet FW 3 x 400 V	Phase failure and sequence monitor	3ASC742401J12	DASG 118	
	Crouzet FW 3 x 480 V	Phase failure and sequence monitor	3ASC742401J15	DASG 119	
	Crouzet FW 3 x 575 V	Phase failure and sequence monitor	3ASC742401J16	DASG 221, DASG 121	
	BC9-30-10, 240 V	DC-contactor	FPL 141 3001 R3103	DASG 118, DASG 119, DASG 121, DASG 218, DASG 219, DASG 220, DASG 221	
	A9-30-10, 380 - 400 V AC	AC-contactor	1SBL141001R8510	DASG 218 (2x)	
	A9-30-10, 415 V AC	AC-contactor	1SBL141001R8610	DASG 219 (2x)	
	A9-30-10, - 440 V / 50 Hz - 500 V / 60 Hz	AC-contactor	1SBL141001R5310	DASG 220 (2x)	
	Semikron: SKD 31/16	Diode bridge	3ASC485821H1	DASG 218, DASG 219, DASG 220, DASG 118, DASG 119	
	Semikron: SKKD 81/20	Diode module	3ASC485822H1	DASG 221 (3x), DASG 121 (3x)	
	PaM 63-8,0	Capacitor, 8 µF, 630 VAC	4984 229-9	DASG 218 (1x), DASG 219 (1x), DASG 220 (xx), DASG 118 (1x), DASG 119 (2x)	
	PaM 85-4,0	Capacitor, 8 µF, 850 VAC	4984 220-9	DASG 221 (2x) DASG 121 (3x)	
	DASG 110	RC module, 530V	3ASC25H297	DASD 101, 102, 103, 104, 105	
	DASG 111	RC module, 600V	3ASC25H295	DASD 106, 107, 126, 127	
Power supply	DASA 110	Power supply module	3ASC25H271	DARA 1000, 1001, 1010	
Indication	DATD 100	Termination board, Cabin I/O	3ASC25H207	DAPM 100, 101	
Hoist Safety	DATD 111	Safety Relay board	3ASC25H213B	DARA 2000	