

Test lab

CERTIFICATE of QUALITY TEST



according to DIN 55 350 - 18 - 4.3.4.

Test report - No. 8997.02 / 12

Client	Siemens AG IC SG EA PRO D 6 2 Wernerwerkdam 5 13629 Berlin	
Equipment under test	Protection Relay 7SJ80 MLFB 1 specimen	$\frac{1}{3}$ of 19" for panel flush mounting 7SJ8031-5EB90-1FB0/CC L0R BF1111049068
Purpose	Environmental test of the corrosive resistance This test is capable of verifying the usability of electronics in G3 environments according to the ANSI/ISA-71.04-1985 environmental conditions for process and measurement and control systems: airborne contaminants.	
Test program	Corrosive gas 4 components according to IEC 68-2-60 and according to the demands of the client	
Test duration	21 days and 7 days and 6 days	
Test period	13 January to 16 February 2012	
Pictures	see appendix 1	
Realization	see test Report No 1888-0131211 _2_ Rev 2, Test Lab Beck-Messtechnik / 28.03.2012 in appendix 2	
Test result	After the corrosive test no neither corrosion phenomena nor deposits were detected at the specimen. An visual evaluation was done after 504 h, after 672 h and after 816 h. The further evaluation will be done by the client.	



Berlin, 28 March 2012

Sitz der Gesellschaft: Berlin
Amtsgericht Berlin Charlottenburg HRB 38393
Ust-ID-Nr.: DE 137 190 620
Geschäftsführer:
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Dipl.-Ing. Joachim Boje,
Dipl.-Ing. Bernd Rhiemeier

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Pictures



picture 1
Protection Relay 7SJ80
before the corrosive test Ke



picture 2
Protection Relay 7SJ80
before the corrosive test Ke



picture 3
Protection Relay 7SJ80
without visible corrosion phenomena or deposits
after the corrosive test Ke



picture 4
Protection Relay 7SJ80
without visible corrosion phenomena or deposits
after the corrosive test Ke



Test report

1888-0131211_2_Rev2

Customer: AUCOTEAM GmbH
Prüflabor
Storkower Str. 115a

10407 Berlin

Quotation No: 1888-0131211

Test method: Corrosive atmosphere according to
DIN EN 60068-2-60 M4 (09/1996) and
IEC 68-2-60 (1995)

Date:	28.03.2012		
Laboratory head:	Schweiker	Owner:	Beck
Name:		Name:	



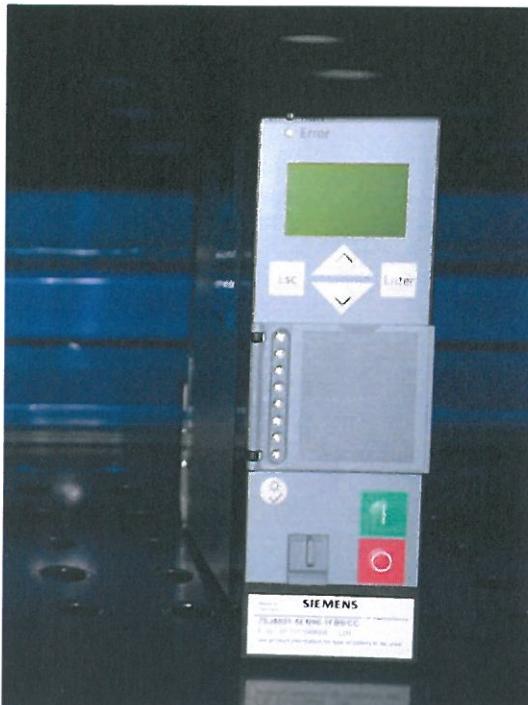
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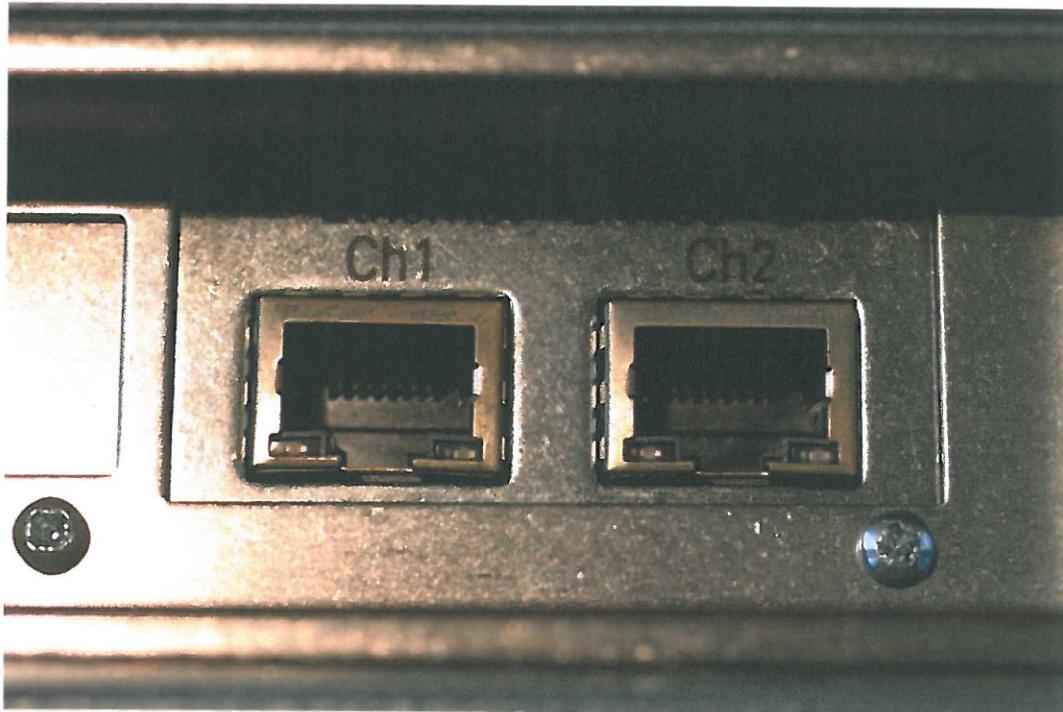
Test:	Corrosive atmosphere according to DIN EN 60068-2-60 M4 (09/1996) and IEC 68-2-60 (1995)	
Test objects:	1 part, electronic component 7SJ8031-5EB90-1FB0 L0R	
Testing purpose:	Resistance to corrosive atmosphere	
Test specification/realisation:	Corrosive atmosphere according to DIN EN 60068-2-60 M4 (09/1996) and IEC 68-2-60 (1995)	
	This test is capable of verifying the usability of electronics in G3 environments according to the ANSI/ISA-71.04-1985 environmental conditions for process and measurement and control systems: airborne contaminants.	
Duration:	816h (see below at test period) Interim evaluations at 504h and 672h (optical evaluation)	
Humidity:	75% r.h.	
Temperature:	25°C	
Mode of operation:		
H ₂ S:	10 ±5 ppb	
NO ₂ :	200 ±20 ppb	
CL ₂ :	10 ±5 ppb	
SO ₂ :	200± 20 ppb	
Operation:	passive	
General laboratory conditions:	Temperature: 23,4°C -/+ 1,5K Humidity: 33% r.F. -/+ 4%	
Test equipment:	Equipment for industrial corrosive gas, Inv. 00015	
Test period:	Period 1 13.01.2012 – 03.02.2012 (21d) Period 2 03.02.2012 – 10.02.2012 (7d) Period 3 10.02.2012 – 16.02.2012 (6d)	
	At the end of the test (672h) it was found that the corrosivity of the chamber was too low. Therefore, the test was extended for 6 days (period 3).	
Situation of the test objects:	At the beginning of the test, the test object had no optical abnormality.	
Test result:	At the interim evaluations (504h and 672h) no optical abnormalities were detected. At the end (after 816h) also no optical abnormalities or any damages were detected.	
Special features:	Immediately after the test the test object was sent to the customer.	
Rating:	The rating will be done by the customer.	

The test result only relates to the test objects.
Copying only with acceptance of the test laboratory.

Images of the test samples:

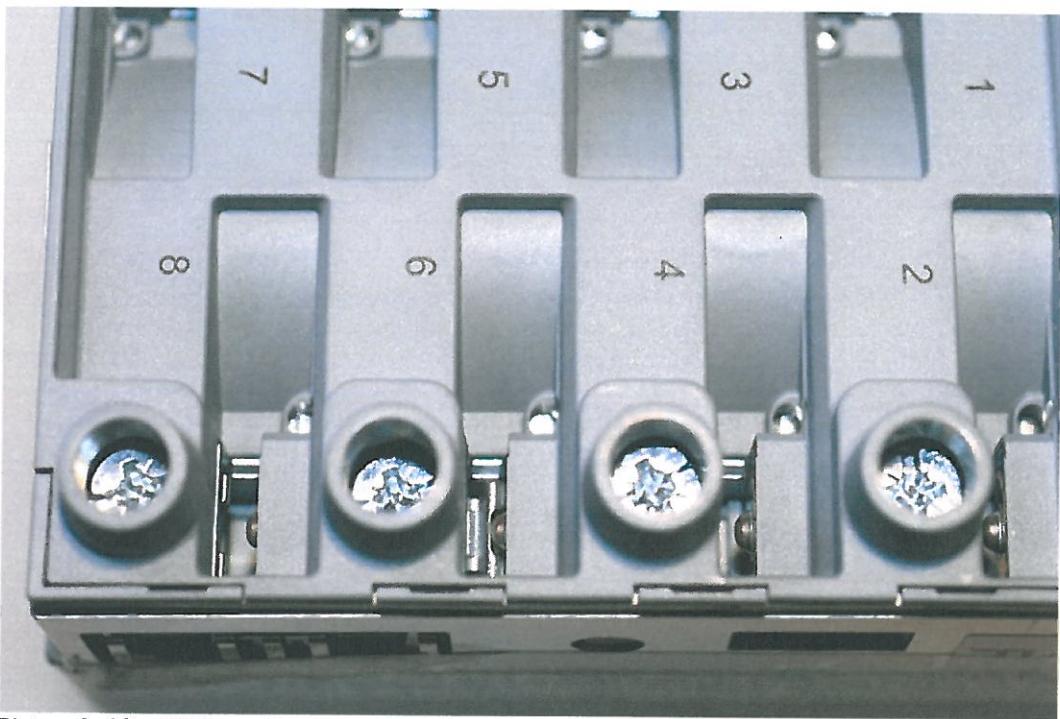


Picture 1: Installation of the test samples at the start of the test

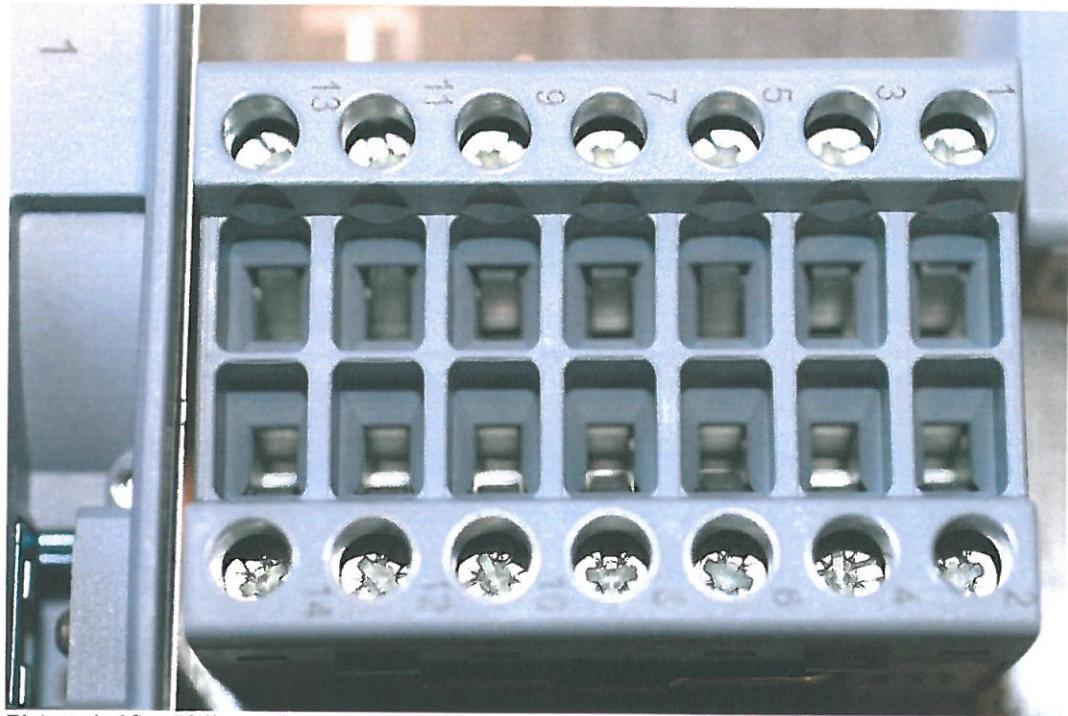


Picture 2: After 504h run-time

The test result only relates to the test objects.
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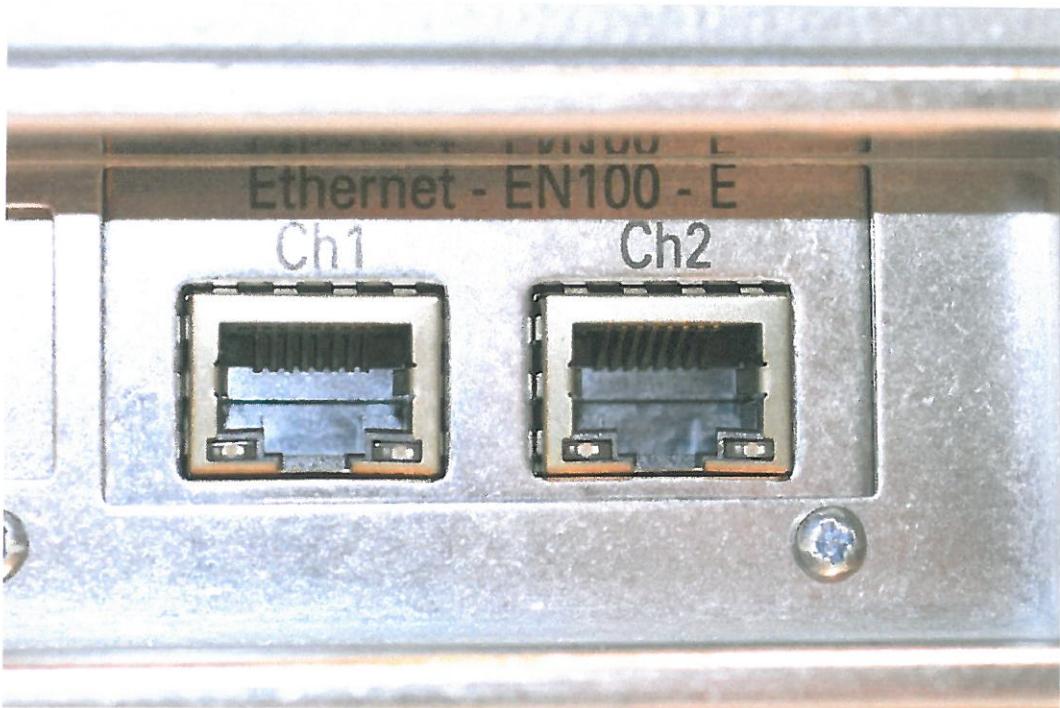
Picture 3: After 504h run-time



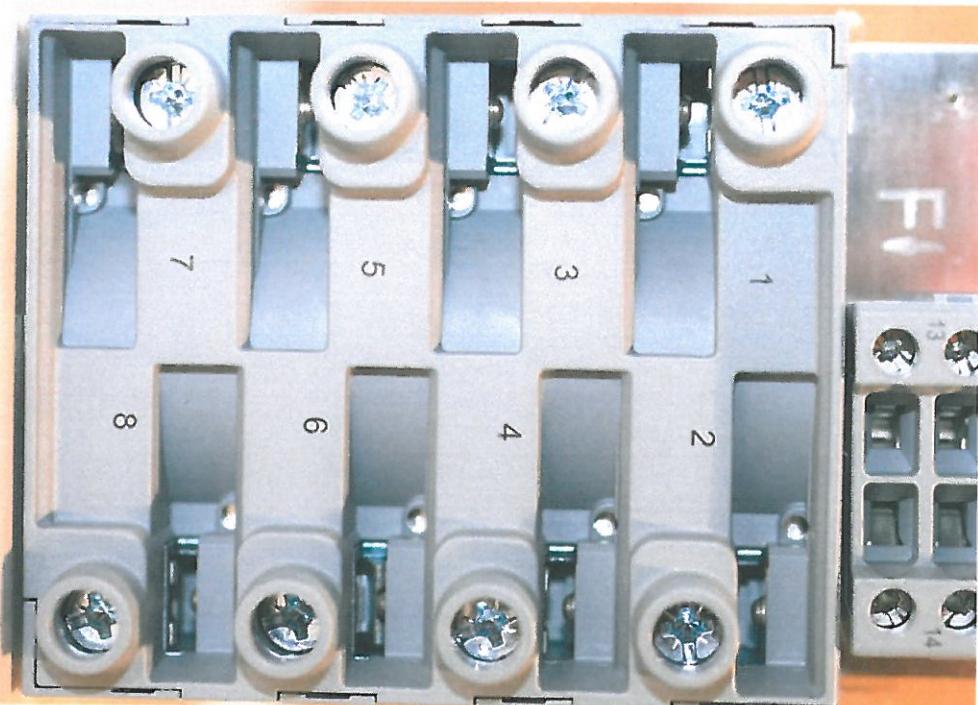
Picture 4: After 504h run-time

The test result only relates to the test objects.
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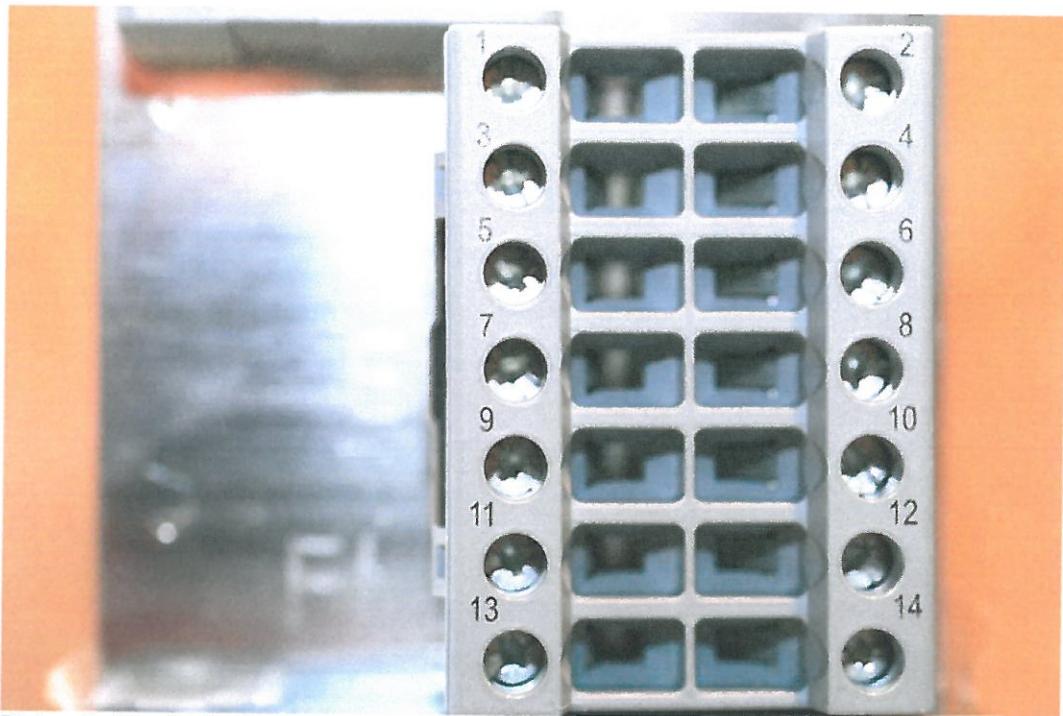
Picture 5: After the test



Picture 6: After the test

The test result only relates to the test objects.
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Picture 7: After the test

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