



TEST REPORT
IEC 60947-6-1
Low-voltage switchgear and controlgear
Part 6-1: Multiple function equipment – Transfer switching equipment

Report Reference No.: A190316

Tested by (name + signature).....:	LIN SHIFANG/CHEN ZHOU	
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Approved by (name + signature).....:	WU XIAOYANG	
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Date of issue: May. 28, 2019

Standard: IEC 60947-6-1:2013

Test conclusion :

Testing Laboratory:	Wenzhou Entry-Exit Inspection and Quarantine Technology Center	
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Tel/Fax.....:	+86 0577-65158685 / +86 0577-65158688	
Email	ddsys@wz.ziq.gov.cn	



Applicant's Name	SIQI TECHNOLOGY CO.,LTD.	
Address	No. 198, Wei 3rd Road, Economic Development Zone Of Yueqing, Wenzhou city, China	

Test item description

Trademark	/	
Manufacturer	SIQI TECHNOLOGY CO.,LTD.	
Model and/or type reference	GLOQ4-125	

General remarks

This report is not valid without official seal and signatures.
The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
Any objection should be raised to the testing laboratory in 15 days since the day this report be received.

Summary of testing:

The following tests were done on the samples.

IEC 60947-6-1	Sub-clause	Sample number
Test according to sub-clause	9.3.4.3	#1

Photos:



Possible test case verdicts:

- test case does not apply to the test object..... : N/A
- test object does meet the requirement..... : P (Pass)
- test object does not meet the requirement..... : F (Fail)

Testing..... :**Date of receipt of test item..... :** 2019.05.23**Date (s) of performance of tests..... :** 2019.05.27**General remarks:**

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"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma / point is used as the decimal separator.

General product information:

#1: GLOQ4-125 Ue=400V Ie=125A Icw=2.5kA/1s

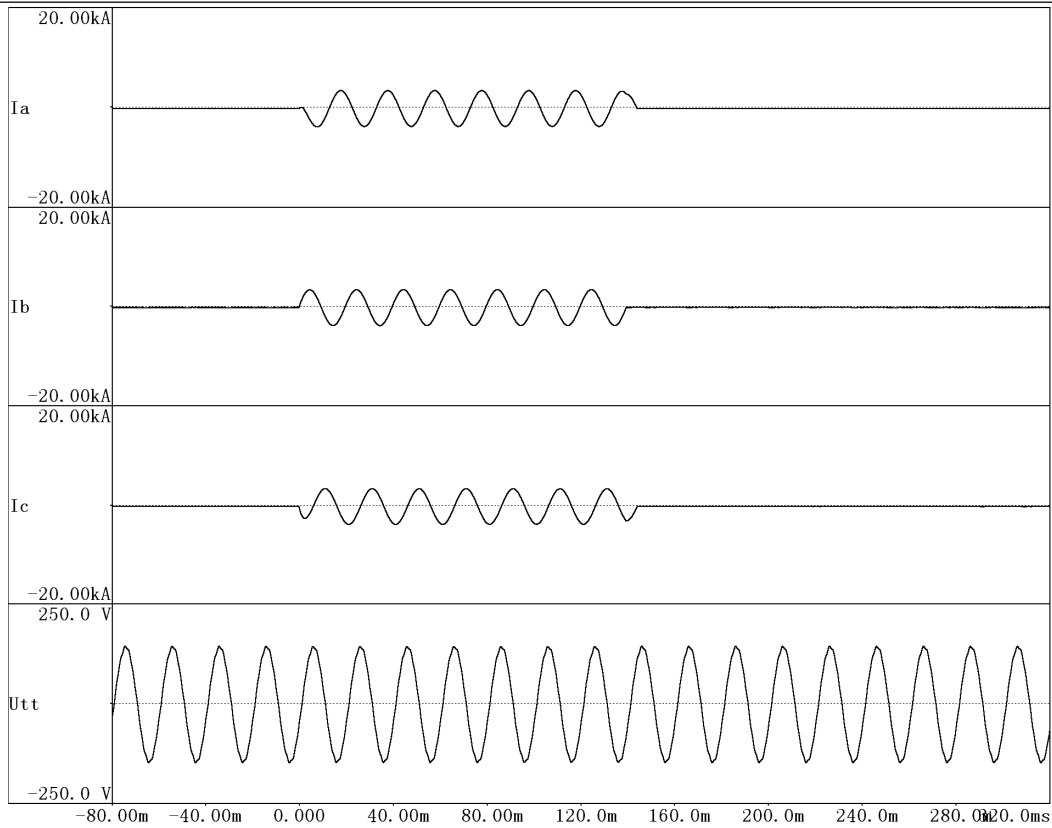
IEC 60947-6-1			
Clause	Requirement + Test	Result - Remark	Verdict

TEST SEQUENCE III: VERIFICATION OF SHORT-CIRCUIT CAPABILITIES			—
9.3.4.3	Short-time withstand current		—
	Rated short-time withstand current I_{cw} (kA)	2.5kA	P
	-test voltage (V).....	411.2V	P
	-r.m.s test current (kA).....	2.54kA	P
	-peak test current (kA).....	3.663kA	P
	-power factor.....	0.878	P
	-current duration (s)	See the oscillogram	P
	Behaviour of the equipment during the test	Meet the requirements	P
	Calibration current oscillogram	CA100-19-075	—
	Short-time withstand current oscillogram.....	SFA190316-#1-1	—

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Calibration current oscillogram

Oscillogram No.: CA100-19-075



$U_{AB}=411.2V$
 $U_{BC}=411.3V$
 $U_{CA}=411.2V$
 $U_{tavg}=411.2V$
 $I_A= 2.536kA$
 $I_B= 2.548kA$
 $I_C= 2.521kA$
 $I_{avg}= 2.535kA$
 $I_{pA}= 3.663kA$
 $I_{pB}= 2.378kA$
 $I_{pC}= 3.025kA$
 $I_{pmax}= 3.663kA$
 $CosA= 0.885$
 $CosB= 0.872$
 $CosC= 0.877$
 $Cos\phi_{avg}= 0.878$

U_t : test voltage

I_{avg} : average current

$cos\phi$: power factor

$I_A I_B I_C$: A B C phase current

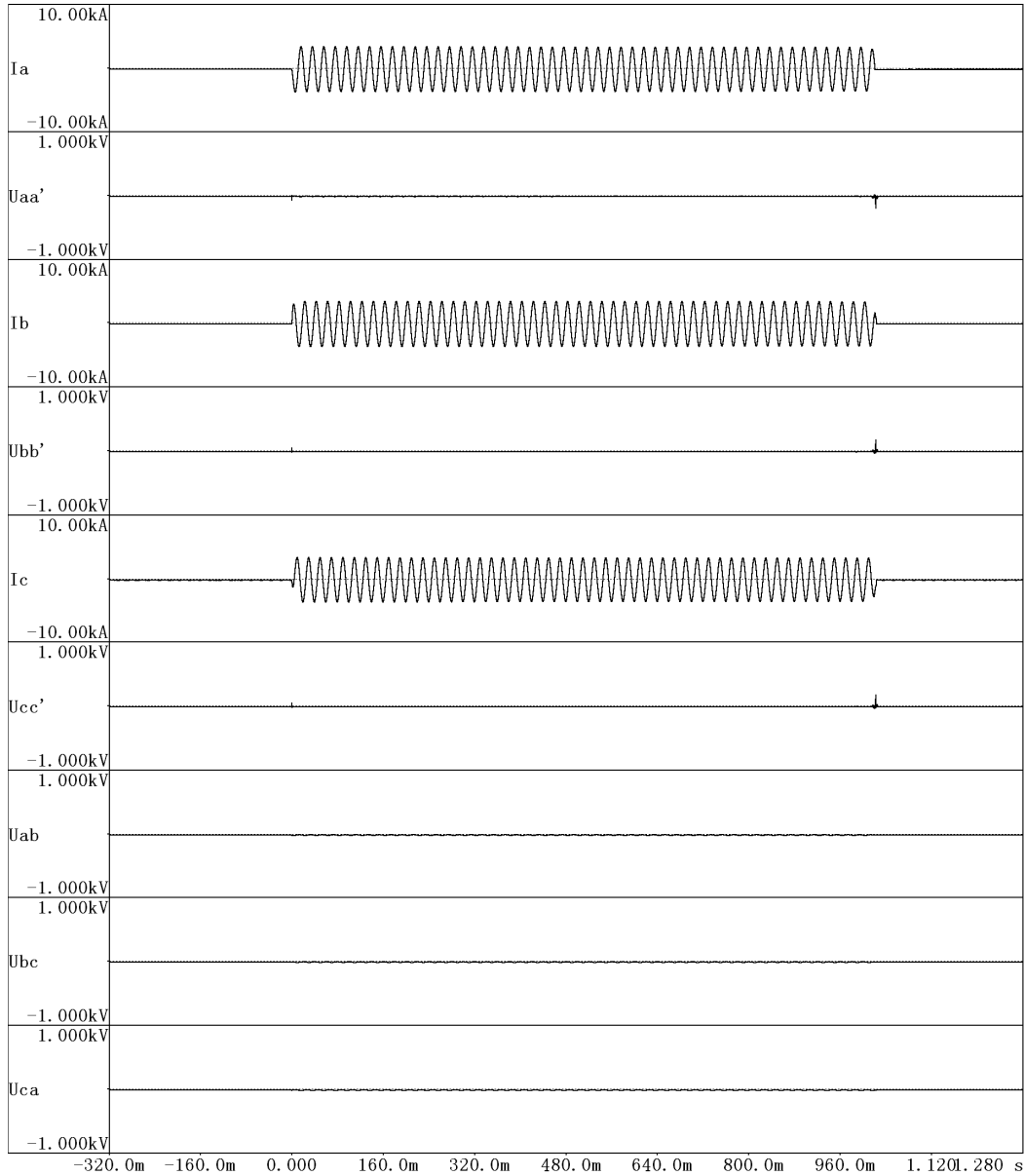
I_{pmax} : max peak current

$Cos\phi_{avg}$: average power factor

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Short-time withstand current

Oscillogram: SFA190316-#1-1



Product: TSE
 Type: 3P/125A
 SN.: #1
 Sequence: SW
 I/I_p:
 2.535/3.663kA
 cos φ : 0.878
 U_t: 411.2V
 I_p A= 3.582kA
 I_p B= 3.572kA
 I_p C= 3.581kA
 I²_t A= 6.140MA²S
 I²_t B= 6.181MA²S
 I²_t C= 6.162MA²S
 T_{mb} A= 1.020 s
 T_{mb} B= 1.023 s
 T_{mb} C = 1.023 s

U_t: test voltage
 I/I_p: prospective current/peak current
 I_p: peak current I²_t: joule integral
 SN: sample number
 cos φ : prospective power factor
 T_{mb}: make-break time T_{rac}: arcing time

IEC 60947-6-1**List of test equipment used:**

Clause	Measurement / testing	Testing / measuring equipment / material used, (Equipment ID)	Type of equipment	Calibration due date	Last Calibration date
9.3.4.3	Terminals for external conductors - Pull test	Torque wrench ESR145-02	TLB0-20N.M	2019.11.22	2018.11.23
		AC100kA short current system ESR002	-----	2019.11.22	2018.11.23