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浙江省质量技术监督局核发

检 测
CNAS LO116

检 测 报 告

Test Report

报告编号 DY15-B042
REPORT NO.

产品名称 Motor Drive Latching Relay
NAME OF SAMPLE

委托单位 BOLTA ELECTRIC (SHENZHEN) CO., LTD.
CUSTOMER

检测类别 Entrusted Test
TEST CATEGORY

浙江省低压电器产品质量检验中心
Inspection Center of Products' Quality of Low Voltage Electric Apparatus in Zhejiang Province

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六．对本检测报告若有异议，应于报告收到之日起十五日内向本中心提出，逾期不再受理。

DECLARATION

1. The test report is invalid if it is not stamped by our station.
2. The inspected unit is not allowed to copy the test report. If needed, the test report should be copied at our station under the application by the inspected unit with its official letter or letter of introduction.
3. The test report is invalid if it is not signed by the compiler, the approval person and the check person of our station.
4. The test report is invalid if it is altered.
5. All the inspection results only relate to the samples.
6. If there are any objections against the test report, the objections should be raised within 15 days after the date of receiving the test report. We will not accept them when exceeding the time limit.

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浙江省低压电器产品质量检验中心

Inspection Center of Products' Quality of Low Voltage Electric Apparatus in Zhejiang Province

检 测 报 告

TEST REPORT

样品名称 Name of Sample	Motor Drive Latching Relay	检测类别 Test Category	Entrusted test
型号规格 Model	BDJ005-80A-012	商 标 Trademark	/
等 级 Grade	/		
额定电流 Rated current	80A	额定电压 Rated voltage	AC250V
技术参数 Technical parameter	Us:12VDC UC3 Single-phase..	频 率 Frequency	50Hz
生产日期 Date of Manufacture	/	批号或编号 Serial No.	/
委托单位(客户) 名 称 Customer	BOLTA ELECTRIC (SHENZHEN) CO., LTD.	受检单位 Inspected Entity	/
地 址 Address	FLAT 6B, HANKING BLDG, 23 DENGLIANG ROAD, NANSHAN, SHENZHEN, GUANGDONG, P.R.CHINA	生产单位 Manufacturer	BOLTA ELECTRIC (SHENZHEN) CO., LTD.
抽样者 Sampling Organization	/	抽样基数 Number of Samples	/
抽样地点 Sample Location	/	抽样数量 Number of Sample(s) for Inspection	/
抽样日期 Sampling Date	/	到样数量 Receiving Number of Sample(s)	4 pcs
送样者 Sample(s) Deliverer	BOLTA ELECTRIC (SHENZHEN) CO., LTD.	到样日期 Receiving Date of Sample(s)	February 15, 2015
检测依据 Test Requirements	IEC60947-5-1、IEC62055-31:2005 and the entrusted requirement		
样品描述、状态 Description and Condition of Sample(s)	Be fit for test		
检测日期 Test Date	From February 25, 2015 to March 6, 2015	检测地点 Test location	No. 400 Guangqiong Road, Jiaxing City
检测结论 Test Summary	The entrusted samples have been tested according to IEC60947-5-1、IEC62055-31:2005 and the entrusted requirement The test results of every test item comply with the requirements. Test Seal Date of Approval: March 27, 2015		
备 注 Remarks	/		

批 准: Approved by 审 核: Verified by 编 制: Complied by

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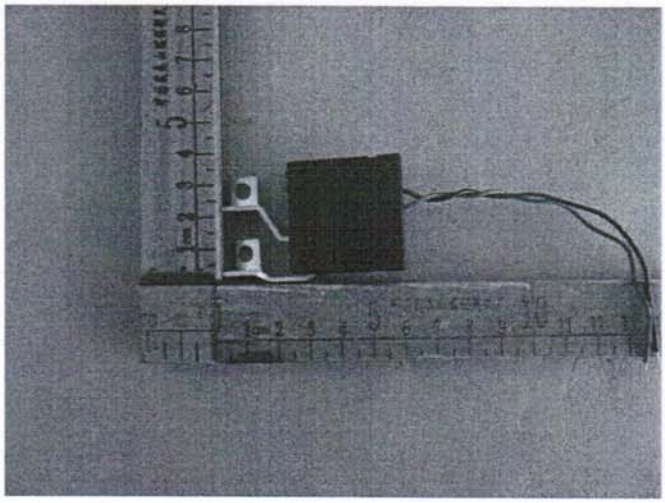
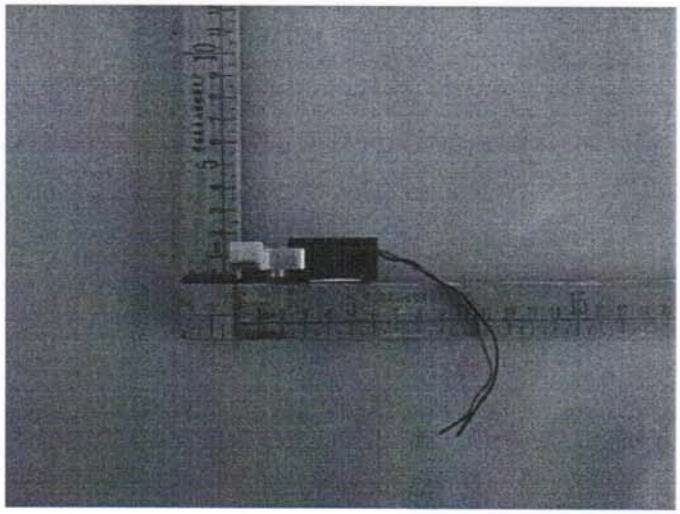
样品外观及标识照片
（Photo and Nameplate of the Inspected Sample(s)）





检测报告的其它说明
（Other Explanation of the Test Report）

Test case verdicts:

Test case does not apply to the test object: N/A
Test item does meet the requirement : P(pass)
Test item does not meet the requirement : F(fail)

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序号 Series Number	检测项目 Test Items	依据标准条款 Clause of standard	样品编号 Serial No. of samples	单项结论 Item Conclusion
1	Electrical endurance	IEC60947-5-1 Annex C IEC62055-31 C.3 and the entrusted requirement	1#	P
2	Minimum switched current	C.7		
3	Power consumption	7.3		
4	Dielectric properties Dielectric strength	IEC60947-5-1 8.3.3.4 IEC62055-31 C.8		
5	Performance under conditional short-circuit current Short-circuit current carrying capacity (Test 1)	IEC60947-5-1 8.3.4 IEC62055-31 C.6	2#	P
	Minimum switched current	C.7		
	Power consumption	7.3		
	Dielectric properties Dielectric strength	IEC60947-5-1 8.3.3.4 IEC62055-31 C.8		
6	Performance under conditional short-circuit current Short-circuit current carrying capacity (Test 2)	IEC60947-5-1 8.3.4 IEC62055-31 C.6	3#	P
7	Minimum switched current	C.7		
8	Power consumption	7.3		
9	Dielectric properties Dielectric strength	IEC60947-5-1 8.3.3.4 IEC62055-31 C.8		
10	Normal operation	C.2	4#	P
11	Line to load voltage surge withstand	C.4		
12	Making and breaking capacities of switching elements under abnormal conditions Fault current making capacity	IEC60947-5-1 8.3.3.5.3 IEC62055-31 C.5		
13	Minimum switched current	C.7		
14	Power consumption	7.3		
15	Dielectric properties Dielectric strength	IEC60947-5-1 8.3.3.4 IEC62055-31 C.8		
	(Blank below)			

Note.: The serial numbers of samples (1#、2#、3#、4#) in this page and in this text report stand for the serial numbers on the tested samples (DY15-B042- 1#、DY15-B042- 2#、DY15-B042- 3#、DY15-B042- 4#).

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Clause	Test items and test requirements	Result of measurement or observation	Conclusion
		1#	
IEC60947-5-1 Annex C IEC62055-31 C.3 and the entrusted requirement	Electrical endurance		P
	Make and break:		
	a sequence		
	Test voltage (r.m.s.): 250 $^{+5\%}$ (V)	253	
	Test current (r.m.s.): 80 $^{+5\%}$ (A)	81	
	cosφ: 1.00 $_{-0.05}$	1.0	
	Number of operating cycles: 5000	5000	
	Make time: 10s	See the oscillograms	
	Break time: 20s	20s	
	b sequence		
	Test voltage (r.m.s.): 250 $^{+5\%}$ (V)	254	
	Test current (r.m.s.): 80 $^{+5\%}$ (A)	81	
	cosφ: 0.5 ± 0.05	0.50	
	Number of operating cycles: 5000	5000	
	Make time: 10s	See the oscillograms	
	Break time: 20s	20s	
	Conductor : 25 × 1 (mm^2 × m)	25 × 1	
	Control voltage: DC12V	12	
	Acceptance criteria:		
	1) the sample shall show no signs of malfunction, sticking of contacts or reluctance to latch;	No signs	
	2) the contacts shall open on the first attempt	Yes	
	Serial No. of oscillograms:	S1502042901 ~ S1502042906	
C.7	Minimum switched current		P
	Test voltage (r.m.s.): 250$^{+5\%}$ (V)	253	
	Test current (r.m.s.): 0.25 $^{+5\%}$ (A)	0.25	
	cosφ: 1.0$_{-0.05}$	1.0	
	Number of operating cycles: 10	10	
	Make time: 10s+5%	10s	
	Break time: 10s	10s	
	Conductor: 25 × 1 (mm^2 × m)	25 × 1	
	Control voltage: DC12V	12	
	Acceptance criteria:		
	1) Test current shall successfully conduct each time the contacts are in the closed position;	Yes	
	2) Test current shall successfully break each time the contacts are in the open position.	Yes	

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Clause	Test items and test requirements	Result of measurement or observation	Conclusion
		1#	
7.3	Power consumption		P
	Test current: 80A	80	
	Conductor: 25 × 1 (mm^2×m)	25 × 1	
	Measurement of power consumption:		
	Test position: main circuit		
	Incoming terminal 、 outgoing terminal		
	Voltage-drop (mV)	63.8	
	Power consumption (W) ≤ 16W	5.11	

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TEST REPORT

Clause	Test items and test requirements	Result of measurement or observation	Conclusion
IEC60947-5-1 8.3.3.4 IEC62055-31 C.8	Dielectric properties	1#	P
	Dielectric strength		
	1). Measuring insulation resistance		
	Test position:		
	In the open position:		
	Between the supply incoming terminal and the outgoing terminal: ⩾ 10 MΩ	> 500MΩ	
	In the closed position:		
	Between the supply incoming terminals connected together and the metal foil in contact with the outer surface of the enclosure: ⩾ 10 MΩ	> 500MΩ	
	2). Impulse withstand voltage test		
	Ambient temperature: ℃	17.8	
	Impulse voltage:		
	In the open position 1: 1000V	1000	
	In the closed position 2: 1000V	1000	
	Impulse voltage wave : 1.2/50 μ s		
	Interval: ⩾ 1s	10	
	Test times:: 3 times for the positive and negative polarity each.		
	Applied position:		
	In the open position:		
	Between the supply incoming terminal and the outgoing terminal;	No unintentional disruptive discharges	
	In the closed position:		
	Between the supply incoming terminals connected together and the metal foil in contact with the outer surface of the enclosure;	No unintentional disruptive discharges	
	3) Power frequency withstand voltage test		
	Ambient temperature: ℃	17.8	
	Test voltage:		
	In the open position 1 2000V	2000	
	In the closed position 2 2000V	2000	
	Time of applying voltage: 1min	1	
	Applied position:		
	In the open position:		
	Between the supply incoming terminal and the outgoing terminal;	No flashover or puncture	
	In the closed position:		
	Between the supply incoming terminals connected together and the metal foil in contact with the outer surface of the enclosure;	No flashover or puncture	

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TEST REPORT

Clause	Test items and test requirements	Result of measurement or observation	Conclusion
		2#	
IEC60947-5-1 8.3.4 IEC62055-31 C.6	Performance under conditional short-circuit current		P
	Pre-operation of carrying		
	Test voltage (r.m.s.): 250 ± 5% (V)	254	
	Test current (r.m.s.): $80^{-5\%}$ (A)	82	
	cosφ: 1.0	1.0	
	Conductor: 25 × 1 (mm^2 × m)	25 × 1	
	Number of operating cycles: 3	3	
	Make time: 5s		
	Break time: 5s		
	The sample shall show no signs of malfunction, sticking or welding of contacts or reluctance to latch;	No signs	
	Serial No. of the oscillograms:	S1502042907~ S1502042909	
	Short-circuit current carrying capacity (Test 1)		
	Test voltage (r.m.s.): 250 ± 5% (V)	252	
	Test current (r.m.s.): $6.00^{-5\%}$ (kA)	6.11	
	cosφ: $0.70_{-0.05}$	0.68	
	Control voltage: DC12V	12	
	Conductor: 25 × 1 (mm^2 × m)	25 × 1	
	Electrical angle: 0°	0°	
	Test sequence: O-t-O-t-O		
	Interval: t ⩾ 1min	1	
	Screw: M5	M5	
	Tightening torque: 2.0N · m	2.0	
	Ip max (kA)	9.78	
	I^2t max (kA^2s)	515	
	Duration: max (ms)	11.5	
	Acceptance criteria:		
	(1) It is permissible that the contacts may weld or burn away;	No	
	(2) The sample shall show no signs of explosion or burning;	No signs	
	(3)The surroundings of the payment meter shall not be endangered;。	No	
	Serial No. of the oscillogram of the prospective current:	Y1502042001	
	Serial No. of the oscillograms:	S1502042001 ~ S1502042003	

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TEST REPORT

Clause	Test items and test requirements	Result of measurement or observation	Conclusion
		2#	
C.7	Minimum switched current		P
	Test voltage (r.m.s.): $250^{+5\%}$ (V)	253	
	Test current (r.m.s.): $0.25^{+5\%}$ (A)	0.25	
	cosφ: $1.0_{-0.05}$	1.0	
	Number of operating cycles: 10	10	
	Make time: 10s+5%	10s	
	Break time: 10s	10s	
	Conductor: 25 × 1 (mm^2 × m)	25 × 1	
	Control voltage: DC12V	12	
	Acceptance criteria:		
	1) Test current shall successfully conduct each time the contacts are in the closed position;	Yes	
	2) Test current shall successfully break each time the contacts are in the open position.	Yes	
7.3	Power consumption		P
	Test current: 80A	80	
	Conductor: 25 × 1 (mm^2×m)	25 × 1	
	Measurement of power consumption:		
	Test position: main circuit		
	Incoming terminal、outgoing terminal Voltage-drop (mV)	61.6	
	Power consumption (W) ≤ 16W	4.93	

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TEST REPORT

Clause	Test items and test requirements	Result of measurement or observation	Conclusion
IEC60947-5-1 8.3.3.4 IEC62055-31 C.8	Dielectric property test	2#	P
	Dielectric strength		
	1). Measuring insulation resistance		
	Test position:		
	In the open position:		
	Between the supply incoming terminal and the outgoing terminal ⩾ 10 MΩ	> 500MΩ	
	In the closed position:		
	Between the supply incoming terminals connected together and the metal foil in contact with the outer surface of the enclosure: ⩾ 10 MΩ	> 500MΩ	
	2). Impulse withstand voltage test		
	Ambient temperature: ℃	17.8	
	Impulse voltage:		
	In the open position 1 1000V	1000	
	In the closed position 2 1000V	1000	
	Impulse voltage wave: 1.2/50 μ s		
	Interval: ⩾ 1s	10	
	Test times: 3 times for the positive and negative polarity each.		
	Applied position:		
	In the open position:		
	Between the supply incoming terminal and the outgoing terminal;	No unintentional disruptive discharges	
	In the closed position:		
	Between the supply incoming terminals connected together and the metal foil in contact with the outer surface of the enclosure;	No unintentional disruptive discharges	
	3). Power frequency withstand voltage test		
	Ambient temperature: ℃	17.8	
	Test voltage:		
	In the open position 1: 2000V	2000	
	In the closed position 2: 2000V	2000	
	Time of applying voltage: 1min	1	
	Applied position:		
	In the open position:		
	Between the supply incoming terminal and the outgoing terminal;	No flashover or puncture	
	In the closed position:		
	Between the supply incoming terminals connected together and the metal foil in contact with the outer surface of the enclosure;	No flashover or puncture	

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TEST REPORT

Clause	Test items and test requirements	Result of measurement or observation	Conclusion
		3#	
IEC60947-5-1 8.3.4 IEC62055-31 C.6	Performance under conditional short-circuit current		P
	Pre-operation of carrying		
	Test voltage (r.m.s.): 250 ± 5% (V)	254	
	Test current (r.m.s.): $80^{-5\%}$ (A)	82	
	cosφ: 1.0	1.0	
	Conductor: 25 × 1 (mm^2 × m)	25 × 1	
	Number of operating cycles: 3	3	
	Make time: 5s		
	Break time: 5s		
	The sample shall show no signs of malfunction, sticking or welding of contacts or reluctance to latch;	No signs	
	Serial No. of the oscillograms:	S1502042910 ~ S1502042912	
	Short-circuit current carrying capacity (Test 2)		
	Test voltage (r.m.s.): 250 ± 5% (V)	252	
	Test current (r.m.s.): $3.00^{-5\%}$ (kA)	3.06	
	cosφ: $0.90_{-0.05}$	0.87	
	Control voltage: DC12V	12	
	Conductor: 25 × 1 (mm^2 × m)	25 × 1	
	Electrical angle: 0°	0°	
	Test sequence: O-t-O-t-O		
	Interval: t ⩾ 1min	1	
	Screw: M5	M5	
	Tightening torque: 2.0N · m	2.0	
	Ip max (kA)	4.34	
	I^2t max (kA^2s)	90.6	
	Duration: max (ms)	9.84	
	Acceptance criteria:		
	1) There shall be no signs of sticking or welding of contacts;	No signs	
	2) There shall be no signs of burning or smoking of the enclosure and the conductors;	No signs	
	3) The surroundings of the payment meter shall not be endangered;	No	
	Cooling the sample for more than 5 min after the test, the sample shall operate normally when applying the control voltage.	Yes	
	Serial No. of the oscillogram of the prospective current:	Y1502042002	
	Serial No. of the oscillograms:	S1502042004 ~ S1502042006	

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TEST REPORT

Clause	Test items and test requirements	Result of measurement or observation	Conclusion
		3#	
C.7	Minimum switched current		P
	Test voltage (r.m.s.): $250^{+5\%}$ (V)	253	
	Test current (r.m.s.): $0.25^{-5\%}$ (A)	0.25	
	cosφ: $1.0_{-0.05}$	1.0	
	Number of operating cycles: 10	10	
	Make time: 10s+5%	10s	
	Break time: 10s	10s	
	Conductor: 25 × 1 (mm^2 × m)	25 × 1	
	Control voltage: DC12V	12	
	Acceptance criteria:		
	1) Test current shall successfully conduct each time the contacts are in the closed position;	Yes	
	2) Test current shall successfully break each time the contacts are in the open position.	Yes	
7.3	Power consumption		P
	Test current: 80A	80	
	Conductor: 25 × 1 (mm^2×m)	25 × 1	
	Measurement of power consumption:		
	Test position: main circuit		
	Incoming terminal、outgoing terminal		
	Voltage-drop (mV)	69.3	
	Power consumption (W) ≤ 16W	5.55	

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TEST REPORT

Clause	Test items and test requirements	Result of measurement or observation	Conclusion
IEC60947-5-1 8.3.3.4 IEC62055-31 C.8	Dielectric property test	3#	P
	Dielectric strength		
	1). Measuring insulation resistance		
	Test position:		
	In the open position:		
	Between the supply incoming terminal and the outgoing terminal ⩾ 10 MΩ	> 500MΩ	
	In the closed position:		
	Between the supply incoming terminals connected together and the metal foil in contact with the outer surface of the enclosure: ⩾ 10 MΩ	> 500MΩ	
	2). Impulse withstand voltage test		
	Ambient temperature: ℃	17.8	
	Impulse voltage:		
	In the open position 1 1000V	1000	
	In the closed position 2 1000V	1000	
	Impulse voltage wave: 1.2/50 μ s		
	Interval: ⩾ 1s	10	
	Test times: 3 times for the positive and negative polarity each.		
	Applied position:		
	In the open position:		
	Between the supply incoming terminal and the outgoing terminal;	No unintentional disruptive discharges	
	In the closed position:		
	Between the supply incoming terminals connected together and the metal foil in contact with the outer surface of the enclosure;	No unintentional disruptive discharges	
	3). Power frequency withstand voltage test		
	Ambient temperature: ℃	17.8	
	Test voltage:		
	In the open position 1: 2000V	2000	
	In the closed position 2: 2000V	2000	
	Time of applying voltage: 1min	1	
	Applied position:		
	In the open position:		
	Between the supply incoming terminal and the outgoing terminal;	No flashover or puncture	
	In the closed position:		
	Between the supply incoming terminals connected together and the metal foil in contact with the outer surface of the enclosure;	No flashover or puncture	

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TEST REPORT

Clause	Test items and test requirements	Result of measurement or observation	Conclusion
		4#	
C.2	Normal operation		P
	Test voltage (r.m.s.): $250^{+5\%}$ (V)	253	
	Test current (r.m.s.): $80^{+5\%}$ (A)	81.0	
	cosφ: 1.0	1.0	
	Number of operating cycles: 3	3	
	Conductor: 25×1 ($mm^2 \times m$)	25×1	
	Control voltage: DC12V×80%	9.6	
	The sample shall operate normally.	Operated normally	
	Serial No. of the oscillograms:	S1502042913 ~ S1502042915	

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TEST REPORT

Clause	Test items and test requirements	Result of measurement or observation	Conclusion
		4#	
C.4	Line to load voltage surge withstand		P
	Ambient temperature: +25℃ ± 5℃	20.6	
	Impulse voltage wave: 1.2/50 μ s		
	Test voltage: 20.0kV	20.2	
	Interval: 60s	60	
	Test times:		
	Positive and negative poles: 5 times each		
	Applied position:		
	Between the main circuit and the control circuit.	No unintentional disruptive discharges	

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Clause	Test items and test requirements	Result of measurement or observation	Conclusion
		4#	
IEC60947-5-1 8.3.3.5.3	Making and breaking capacities of switching elements under abnormal conditions		P
IEC62055-31 C.5	Fault current making capacity		
	Test voltage (r.m.s.): 250 ± 5% (V)	252	
	Test current (r.m.s.): $3.00^{-5\%}$ (kA)	3.06	
	cosφ: $0.90_{-0.05}$	0.87	
	Control voltage: DC12V	12	
	Conductor: 25 × 1 (mm^2 × m)	25 × 1	
	Test sequence: "CO" 3 times	3	
	Interval: ⩾ 1min	1	
	Screw: M5	M5	
	Tightening torque: 2.0N · m	2.0	
	Duration: max (ms)	8.86	
	Arcing time: max (ms)	5.38	
	Ip max (kA)	2.77	
	I^2t max (kA^2s)	40.4	
	Acceptance criteria:		
	1) There shall be no signs of sticking or welding of contacts;	No signs	
	2) There shall be no signs of burning or smoking of the enclosure and the conductors;	No signs	
	3) The surroundings of the payment meter shall not be endangered;	No	
	Serial No. of the oscillogram of the prospective current:	Y1502042002	
	Serial No. of the oscillograms:	S1502042007 ~ S1502042009	

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TEST REPORT

Clause	Test items and test requirements	Result of measurement or observation	Conclusion
		4#	
C.7	Minimum switched current		P
	Test voltage（r.m.s.）: $250^{+5\%}$ (V)	253	
	Test current（r.m.s.）: $0.25^{-5\%}$ (A)	0.25	
	cosφ: $1.0_{-0.05}$	1.0	
	Number of operating cycles: 10	10	
	Make time: 10s+5%	10s	
	Break time: 10s	10s	
	Conductor: 25 × 1（mm^2 × m）	25 × 1	
	Control voltage: DC12V	12	
	Acceptance criteria:		
	1) Test current shall successfully conduct each time the contacts are in the closed position;	Yes	
	2) Test current shall successfully break each time the contacts are in the open position.	Yes	
7.3	Power consumption		P
	Test current: 80A	80	
	Conductor: 25 × 1（mm^2×m）	25 × 1	
	Measurement of power consumption:		
	Test position: main circuit		
	Incoming terminal、outgoing terminal		
	Voltage-drop (mV)	65.2	
	Power consumption (W) ≤ 16W	5.22	

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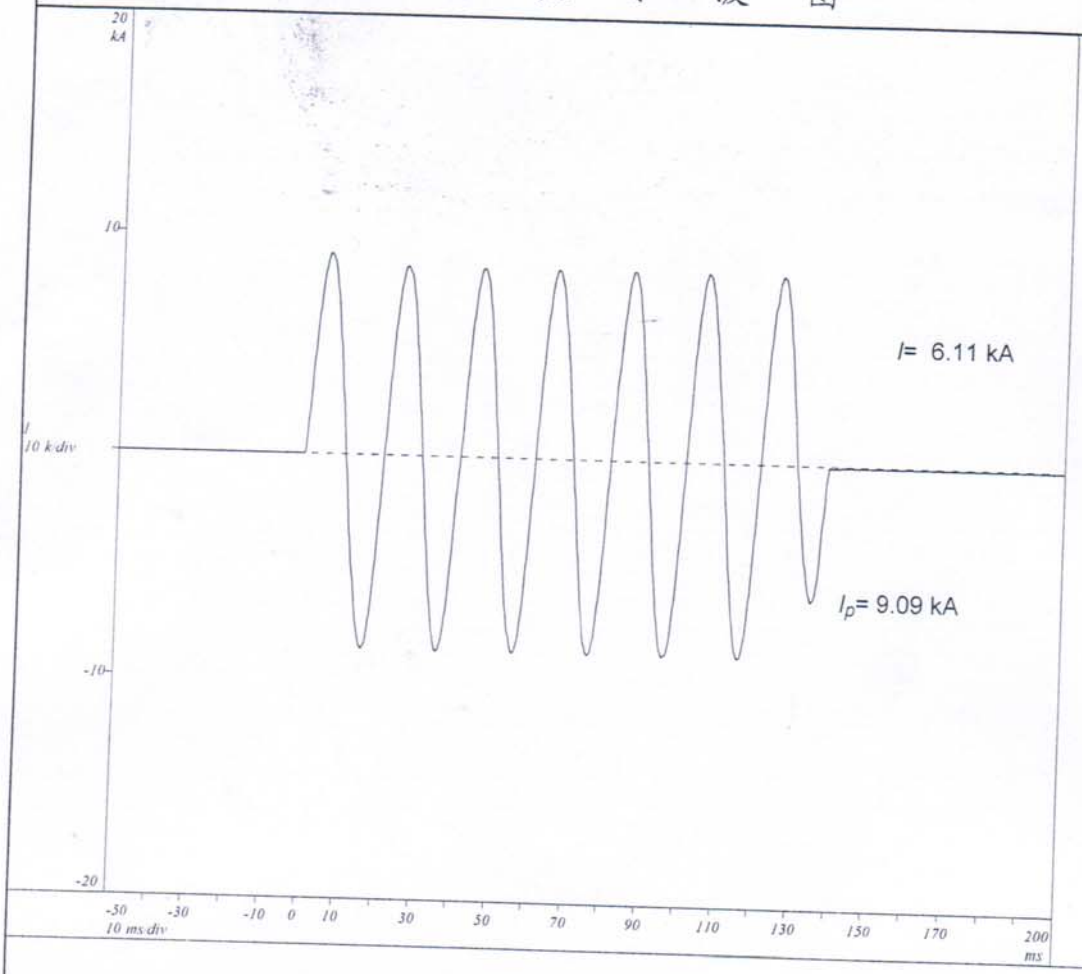
TEST REPORT

Clause	Test items and test requirements	Result of measurement or observation	Conclusion
IEC60947-5-1 8.3.3.4 IEC62055-31 C.8	Dielectric properties	4#	P
	Dielectric strength		
	1). Measuring insulation resistance:		
	Test position:		
	In the open position:		
	Between the supply incoming terminal and the outgoing terminal ⩾ 10 MΩ	> 500MΩ	
	In the closed position:		
	Between the supply incoming terminals connected together and the metal foil in contact with the outer surface of the enclosure ⩾ 10 MΩ	> 500MΩ	
	2). Impulse withstand voltage test		
	Ambient temperature: ℃	17.6	
	Impulse voltage:		
	In the open position 1: 1000V	1000	
	In the closed position 2: 1000V	1000	
	Impulse voltage wave: 1.2/50 μ s		
	Interval: ⩾ 1s	10	
	Test times: 3 times for the positive and negative polarity each.		
	Applied position:		
	In the open position:		
	Between the supply incoming terminal and the outgoing terminal;	No unintentional disruptive discharges	
	In the closed position:		
	Between the supply incoming terminals connected together and the metal foil in contact with the outer surface of the enclosure;	No unintentional disruptive discharges	
	3). Power frequency withstand voltage test		
	Ambient temperature: ℃	17.6	
	Test voltage:		
	In the open position 1: 2000V	2000	
	In the closed position 2: 2000V	2000	
	Time of applying voltage: 1min	1	
	Applied position:		
	In the open position:		
	Between the supply incoming terminal and the outgoing terminal;	No flashover or puncture	
	In the closed position:		
	Between the supply incoming terminals connected together and the metal foil in contact with the outer surface of the enclosure;	No flashover or puncture	
	TEST REPORT END		

预 期 电 流 示 波 图

DY15-B042

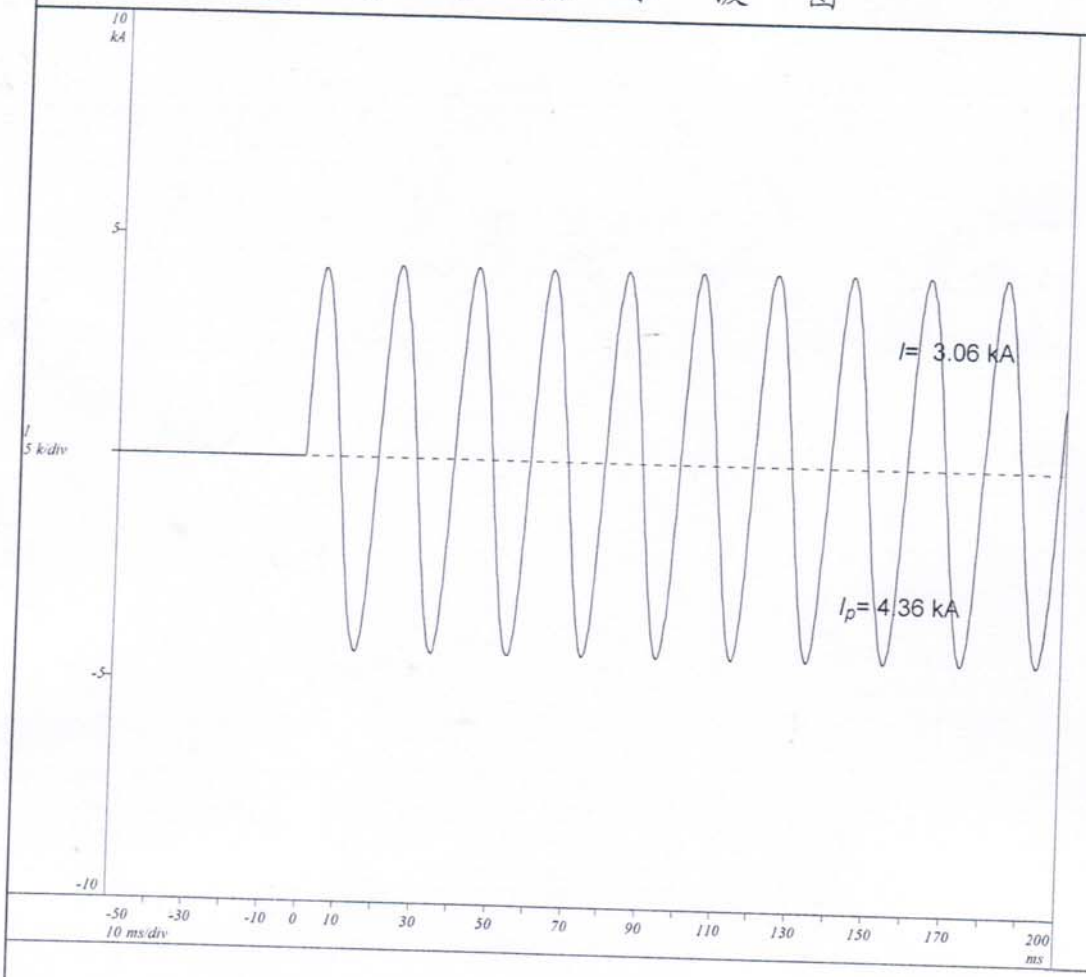


预期电流
U = 252.V
I = 6.11 kA
Ip = 9.09 kA
cosφ = 0.68

Y1502042001

预 期 电 流 示 波 图

DY15-B042

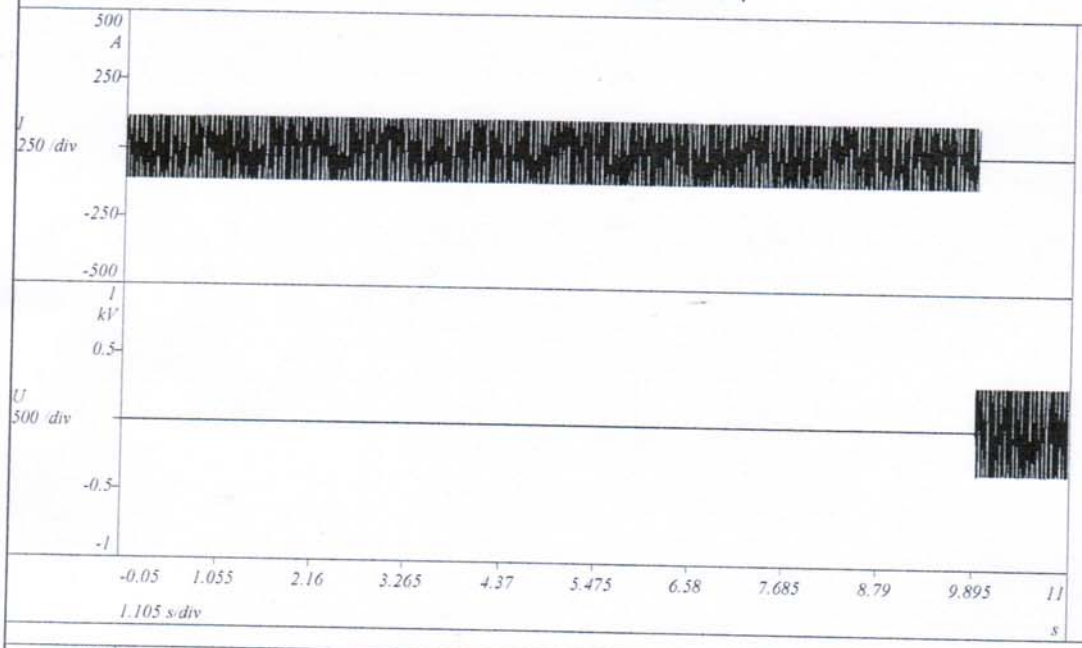


预期电流
U = 252.V
I = 3.06 kA
Ip = 4.36 kA
cosφ = 0.87

Y1502042002

试 验 示 波 图

DY15-B042



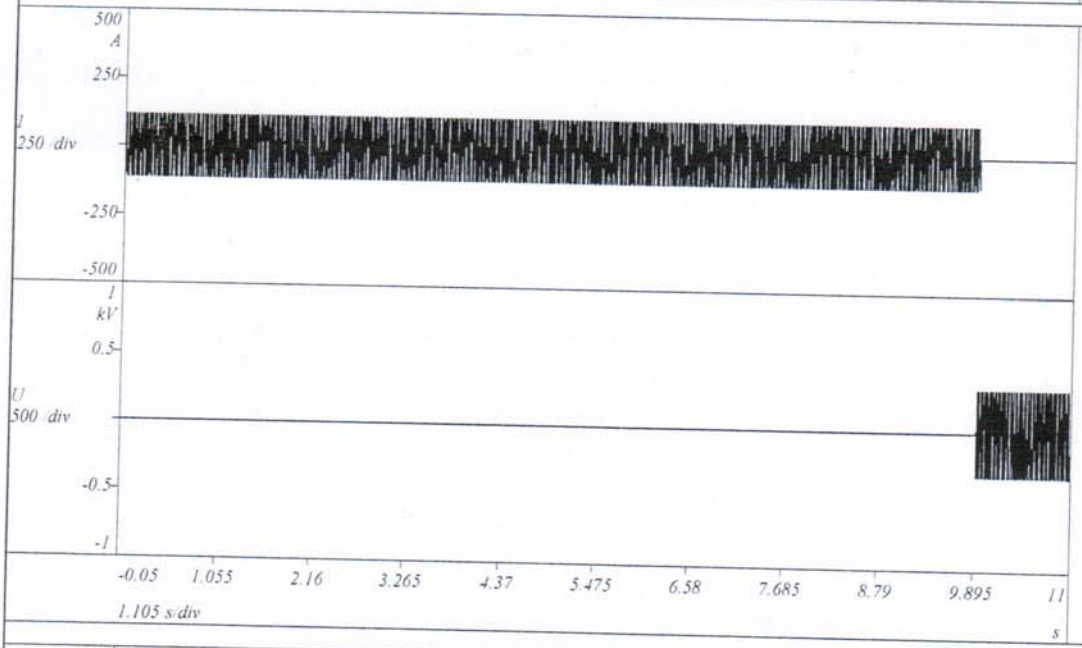
250 V
80 A
U = 253 V
I = 81 A
cosφ= 1.0

1#
NO. 1

$I_{p(a)}$= 115. A

通断时间: 10.0 s
燃弧时间: 4.70 ms

S1502042901



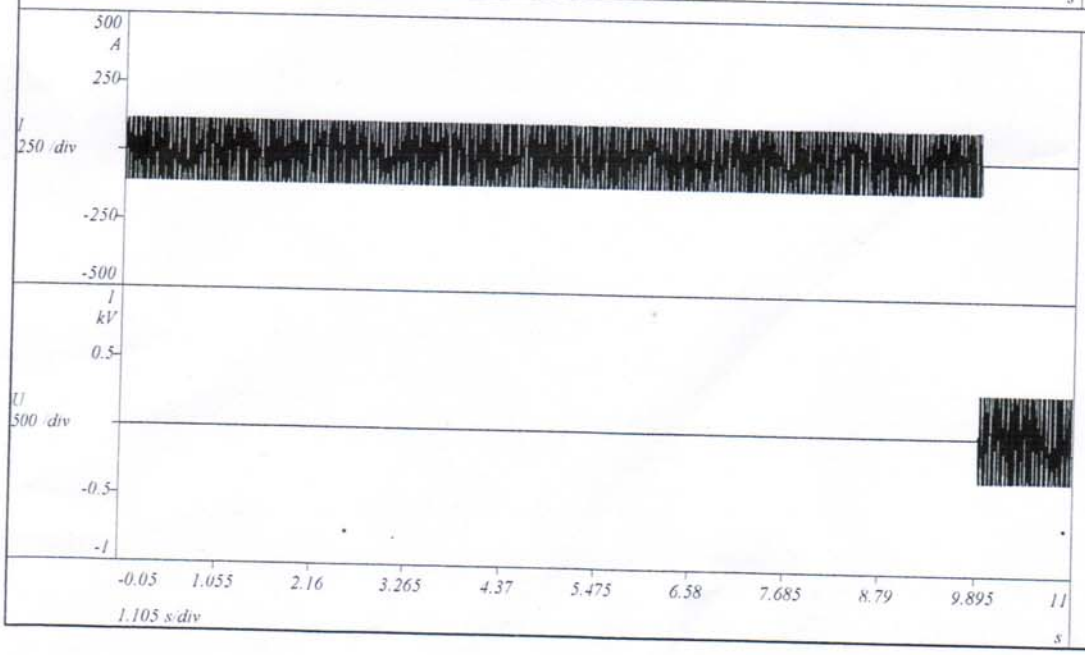
250 V
80 A
U = 253 V
I = 81 A
cosφ= 1.0

1#
NO. 2500

$I_{p(a)}$= 114. A

通断时间: 10.0 s
燃弧时间: 6.08ms

S1502042902



250 V
80 A
U = 253 V
I = 81 A
cosφ= 1.0

1#
NO. 5000

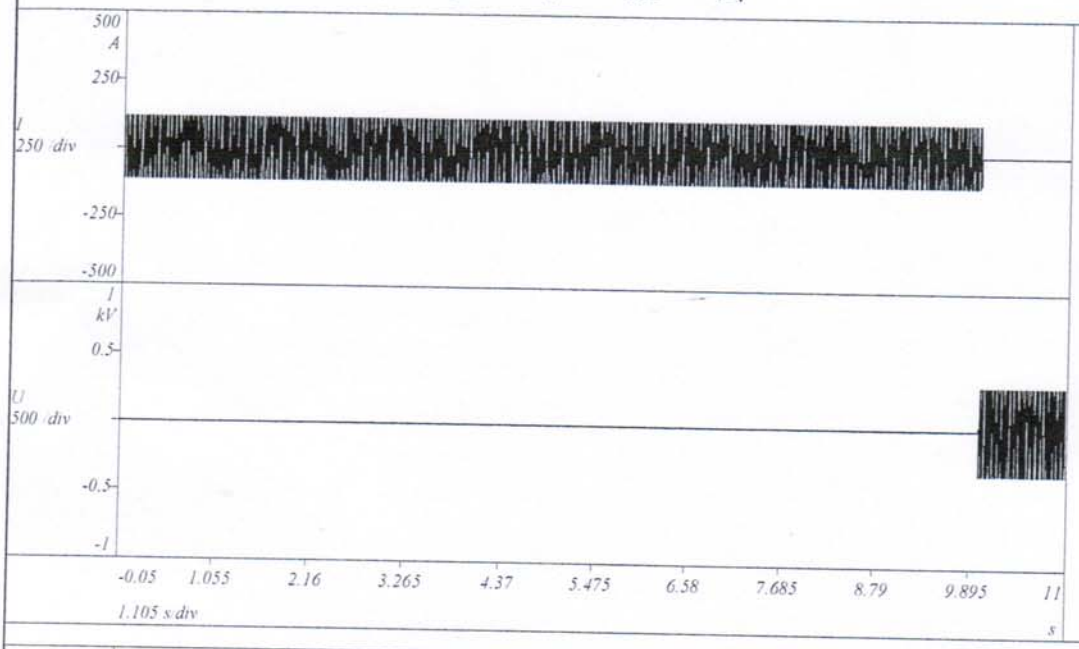
$I_{p(a)}$= 115. A

通断时间: 10.0 s
燃弧时间: 4.42 ms

S1502042903

试 验 示 波 图

DY15-B042



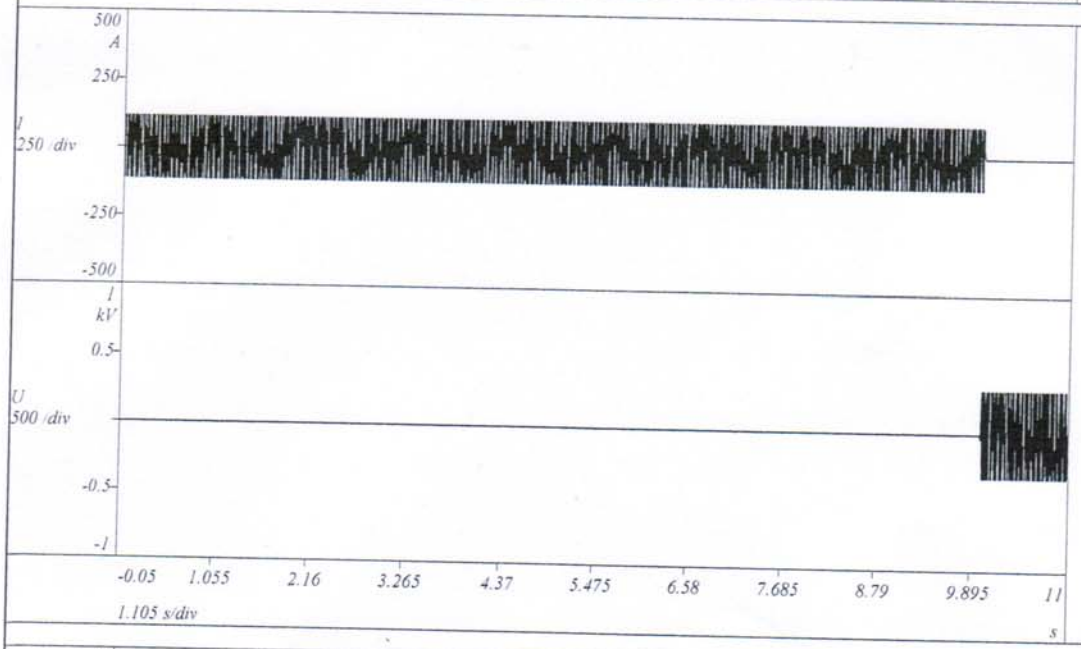
250 V
80 A
U = 254 V
I = 81 A
cosφ= 0.5

1#
NO. 5000

$I_{p(a)}$= 131. A

通断时间: 10.0 s
燃弧时间: 10.4 ms

S1502042904



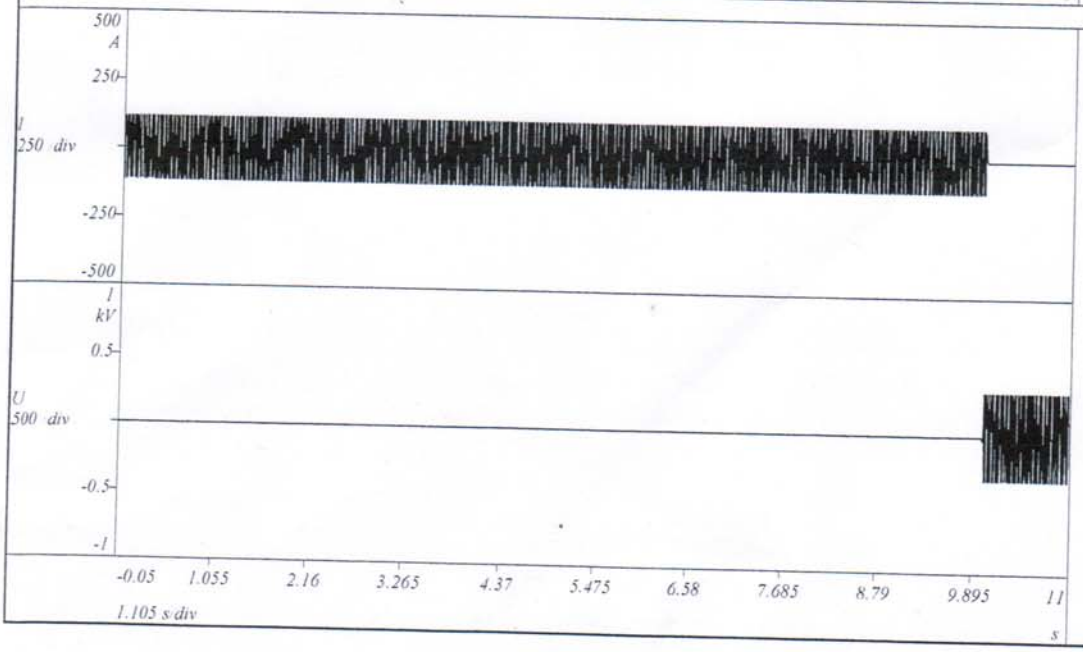
250 V
80 A
U = 254 V
I = 81 A
cosφ= 0.5

1#
NO. 7500

$I_{p(a)}$= 131. A

通断时间: 10.0 s
燃弧时间: 9.02 ms

S1502042905



250 V
80 A
U = 254 V
I = 81 A
cosφ= 0.5

1#
NO. 10000

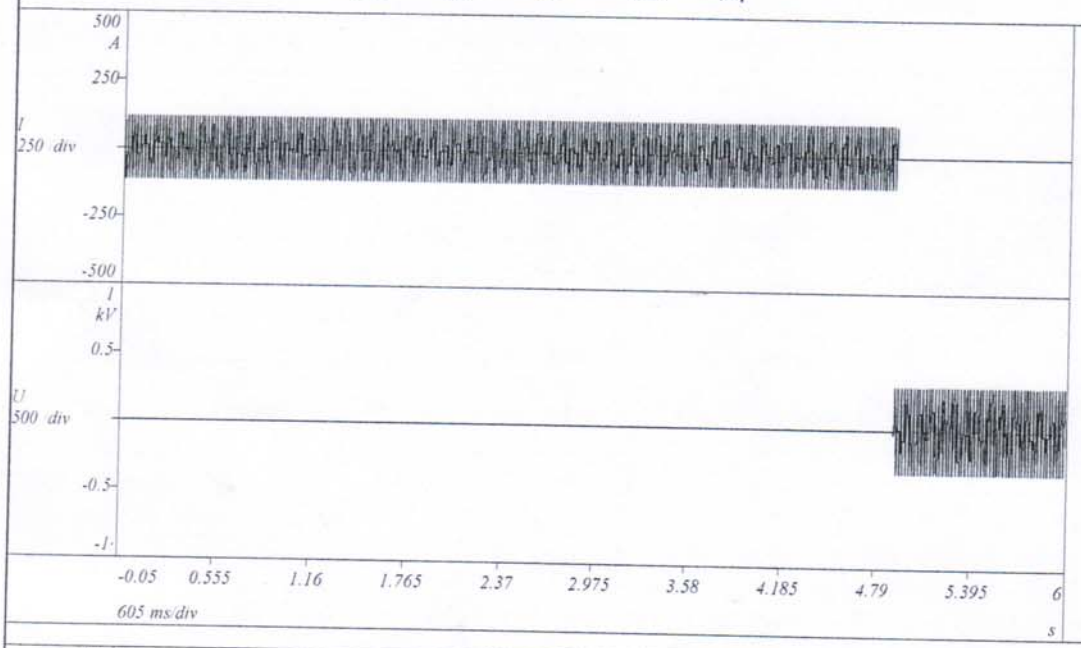
$I_{p(a)}$= 129. A

通断时间: 10.0 s
燃弧时间: 10.3 ms

S1502042906

试 验 示 波 图

DY15-B042



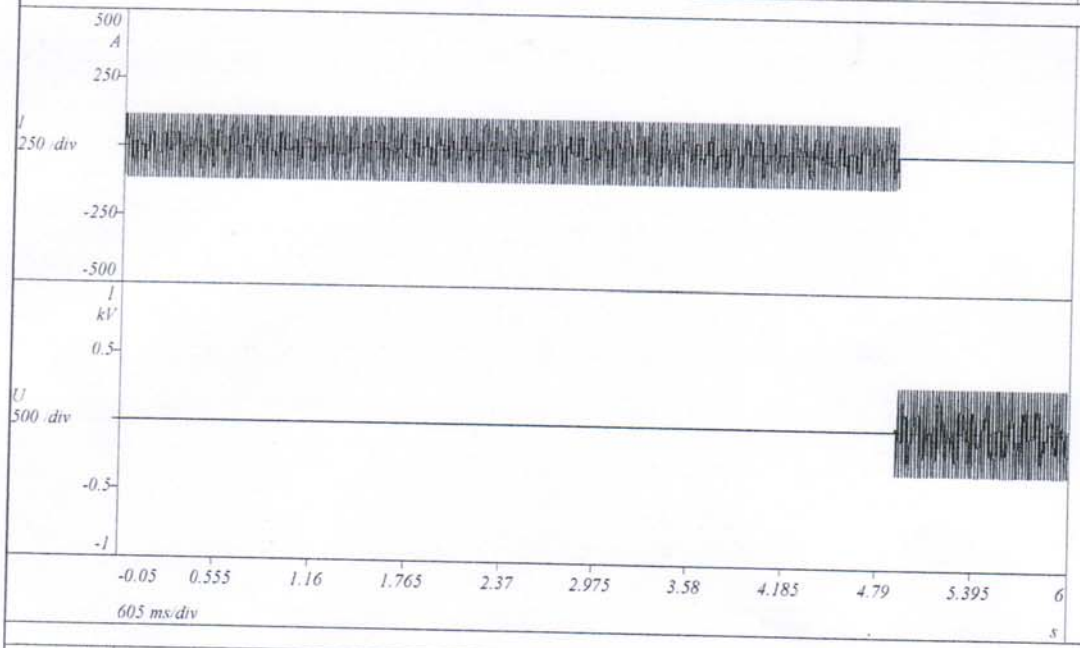
250 V
80 A
U = 254 V
I = 82 A
cosφ= 1.0

2#
NO. 1

$I_{p(a)}$= 116. A

通断时间: 5.0 s
燃弧时间: 5.86 ms

S1502042907



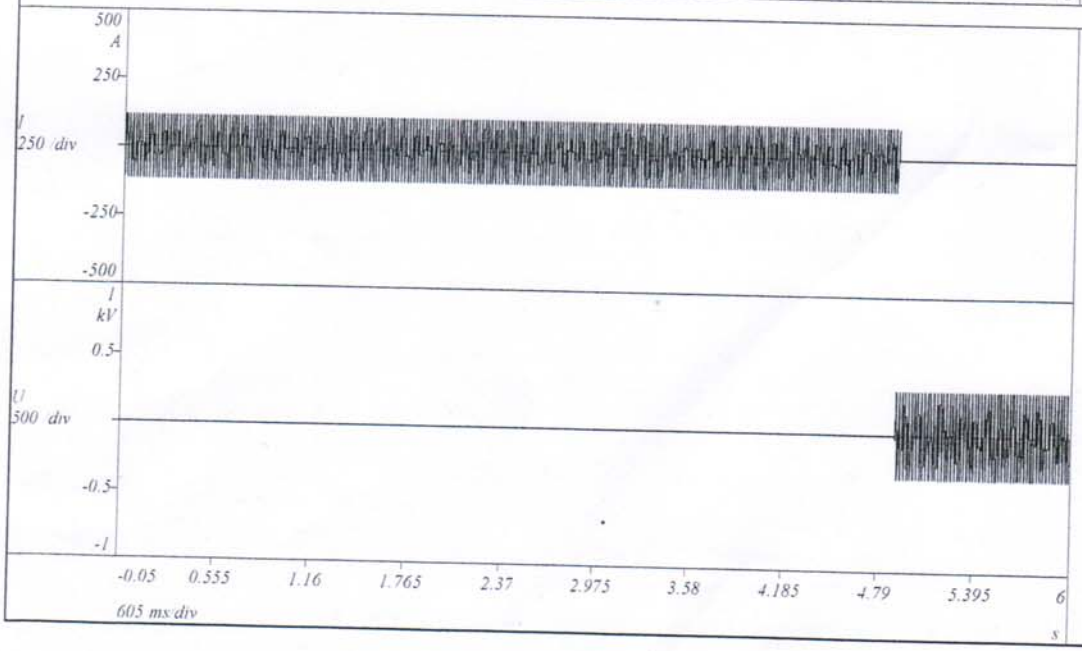
250 V
80 A
U = 254 V
I = 82 A
cosφ= 1.0

2#
NO. 2

$I_{p(a)}$= 116. A

通断时间: 5.0 s
燃弧时间: 5.64ms

S1502042908



250 V
80 A
U = 254 V
I = 82 A
cosφ= 1.0

2#
NO. 3

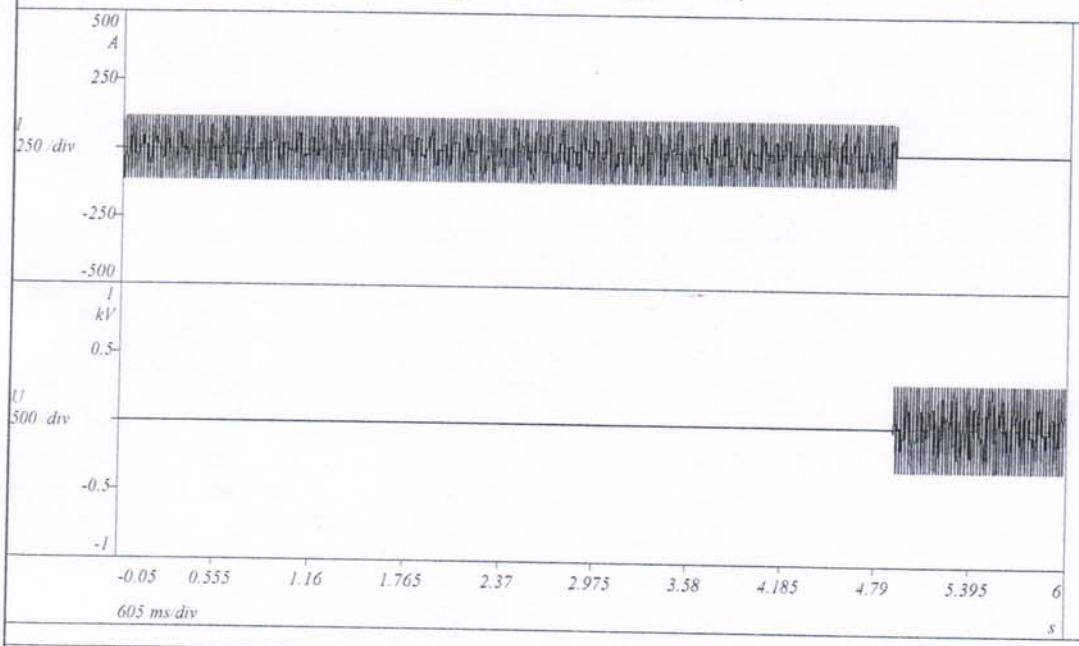
$I_{p(a)}$= 117. A

通断时间: 5.0 s
燃弧时间: 6.98 ms

S1502042909

试 验 示 波 图

DY15-B042



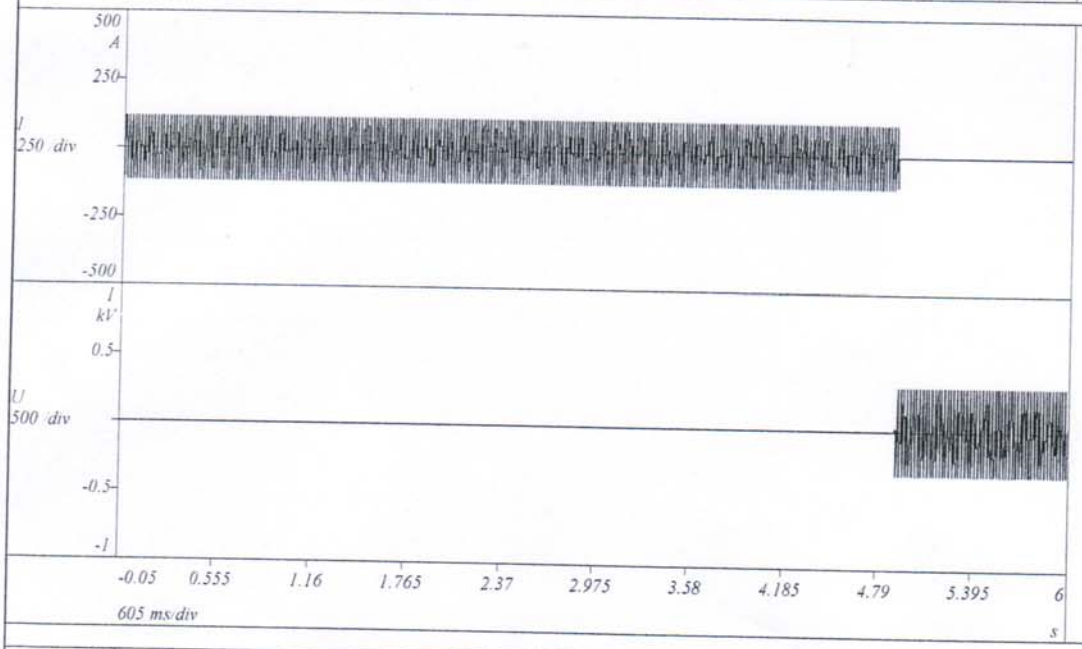
250 V
80 A
U = 254 V
I = 82 A
cosφ= 1.0

3#
NO. 1

$I_{p(a)}$= 116. A

通断时间: 5.0 s
燃弧时间: 5.78 ms

S1502042910



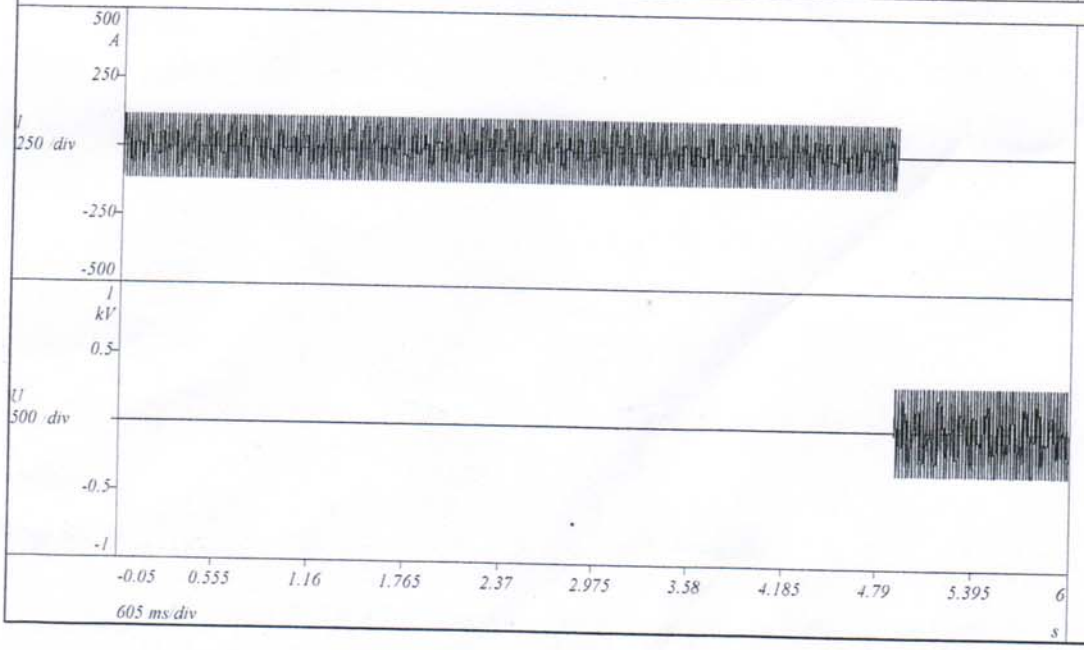
250 V
80 A
U = 254 V
I = 82 A
cosφ= 1.0

3#
NO. 2

$I_{p(a)}$= 116. A

通断时间: 5.0 s
燃弧时间: 4.64ms

S1502042911



250 V
80 A
U = 254 V
I = 82 A
cosφ= 1.0

3#
NO. 3

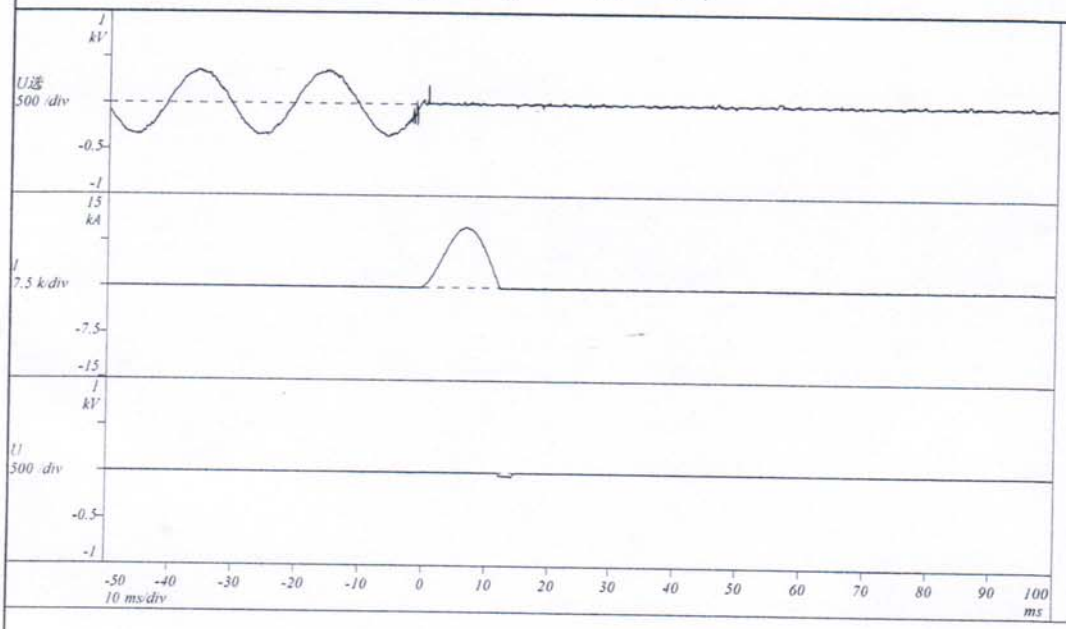
$I_{p(a)}$= 117. A

通断时间: 5.0 s
燃弧时间: 6.76 ms

S1502042912

试 验 示 波 图

DY15-B042

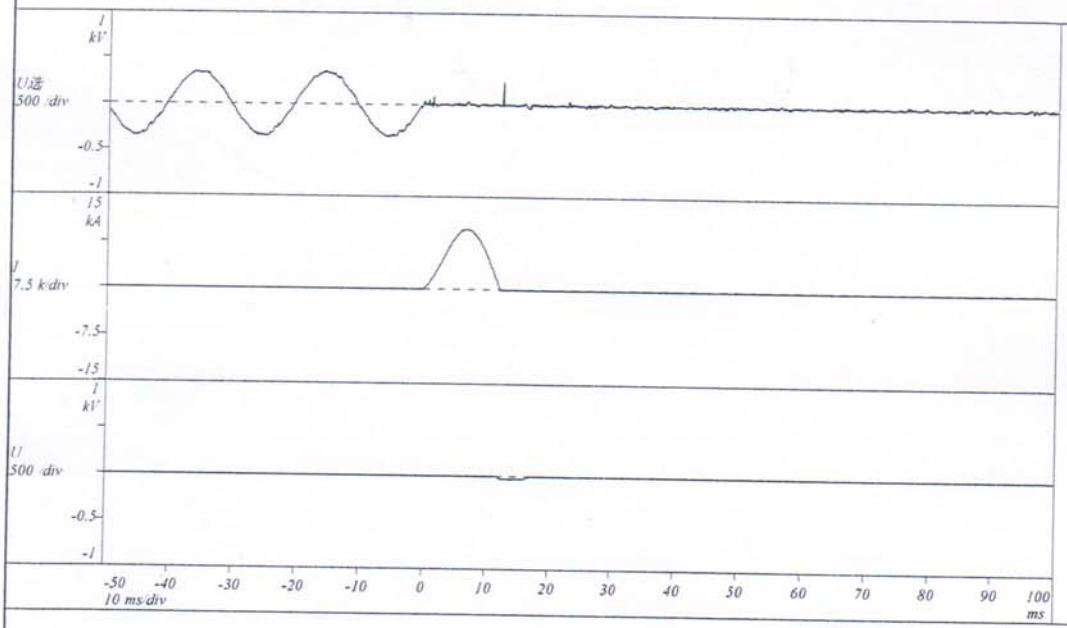


U_e : 250V
I_n : 80A

U = 252.V
I = 6.11kA
cosφ= 0.68

2#
O1
合闸角:0°
I_p = 9.78 kA
I^2t= 515. kA^2s
通断时间: 11.5 ms

S1502042001

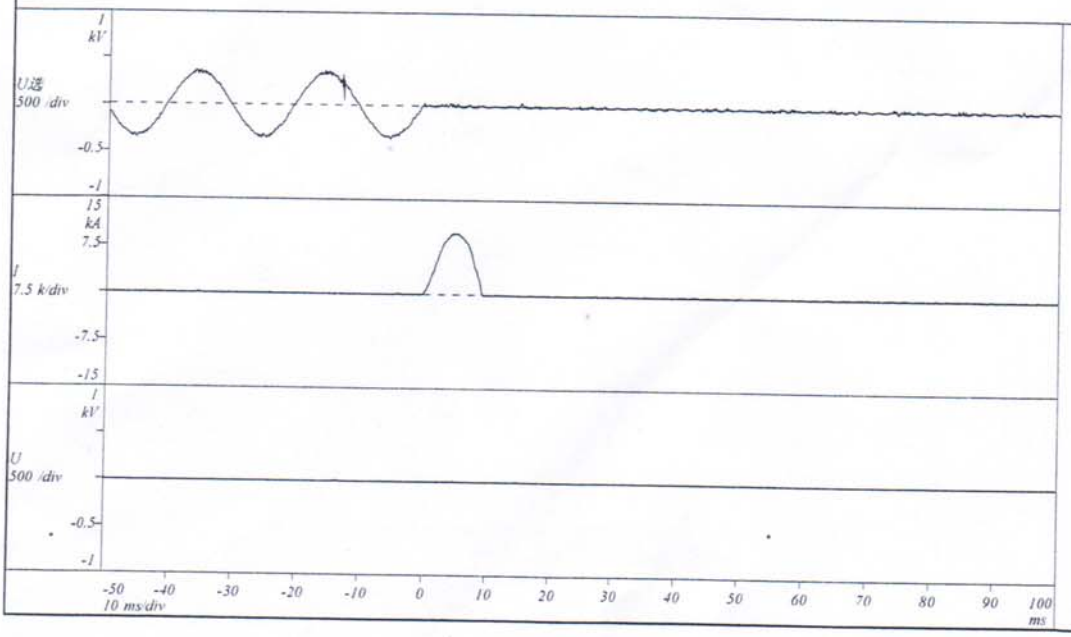


U_e : 250V
I_n : 80A

U = 252.V
I = 6.11kA
cosφ= 0.68

2#
O2
合闸角: 0°
Ip = 9.75 kA
I^2t= 512. kA^2s
通断时间: 11.4 ms

S1502042002



U_e : 250V
I_n : 80A

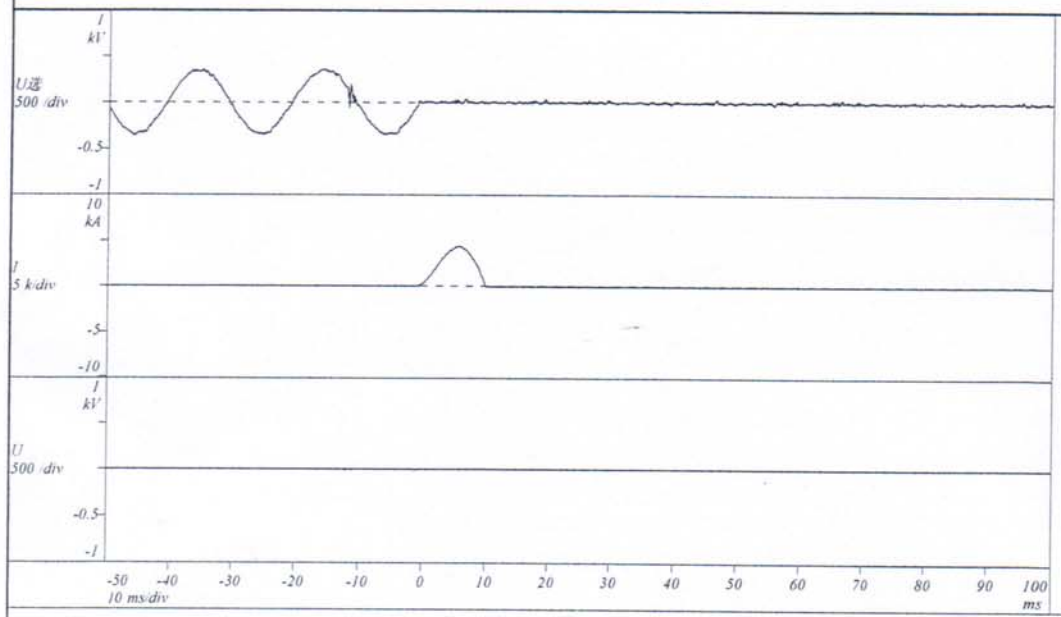
U = 252.V
I = 6.11kA
cosφ= 0.68

2#
O3
合闸角: 0°
I_p = 9.69 kA
I^2t= 437. kA^2s
通断时间: 8.97 ms

S1502042003

试 验 示 波 图

DY15-B042

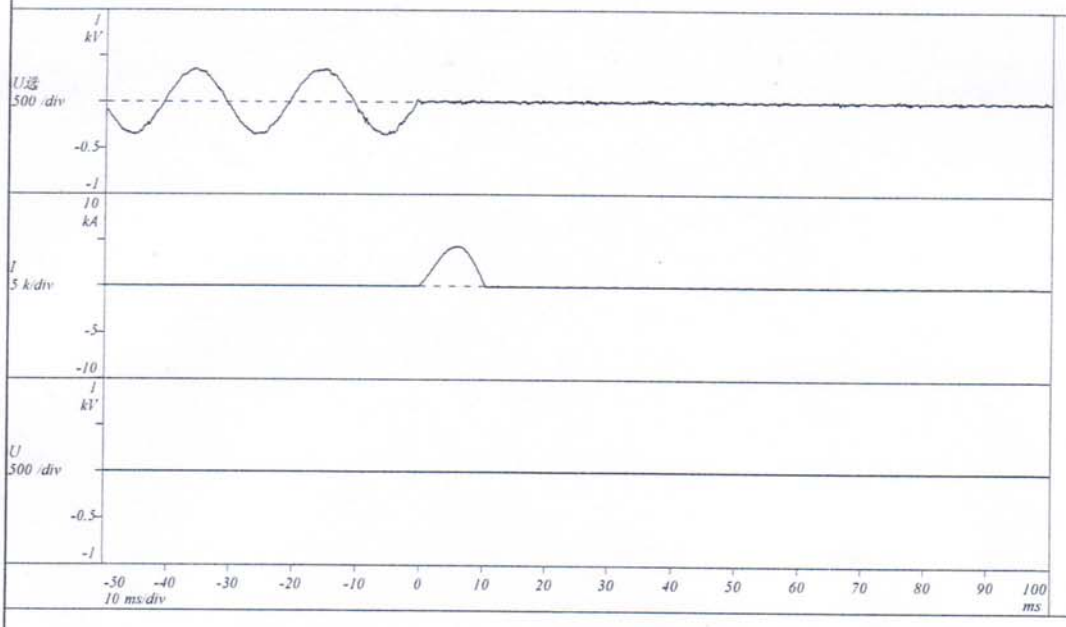


U_e : 250V
I_n : 80A

U = 252.V
I = 3.06kA
cosφ= 0.87

3#
O1
合闸角:0°
I_p = 4.32 kA
I^2t= 86.8 kA^2s
通断时间: 9.74 ms

S1502042004

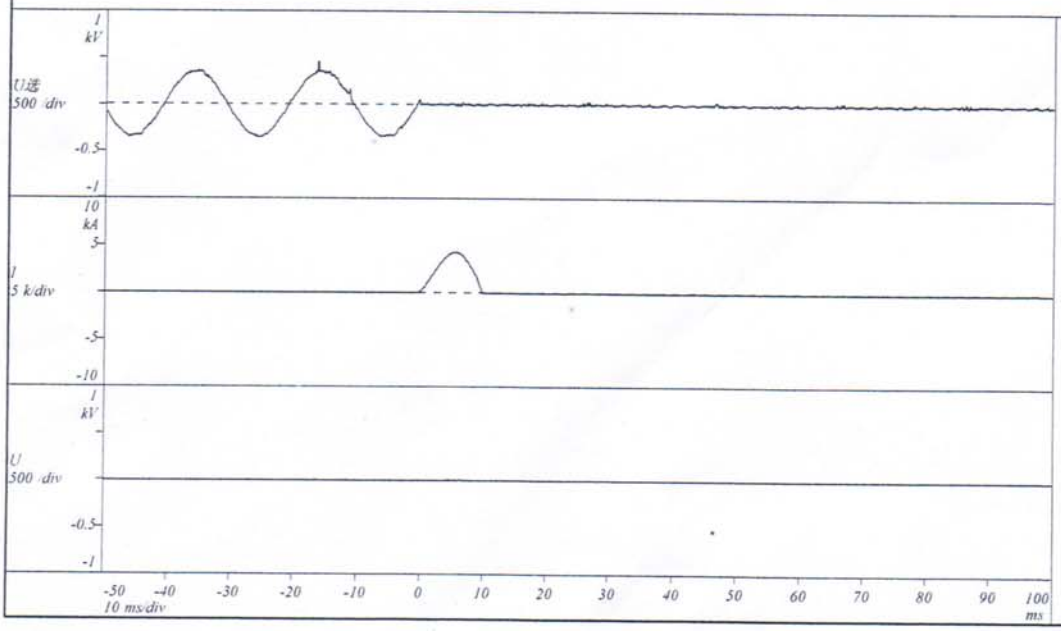


U_e : 250V
I_n : 80A

U = 252.V
I = 3.06kA
cosφ= 0.87

3#
O2
合闸角: 0°
Ip = 4.34 kA
I^2t= 90.6 kA^2s
通断时间: 9.84 ms

S1502042005



U_e : 250V
I_n : 80A

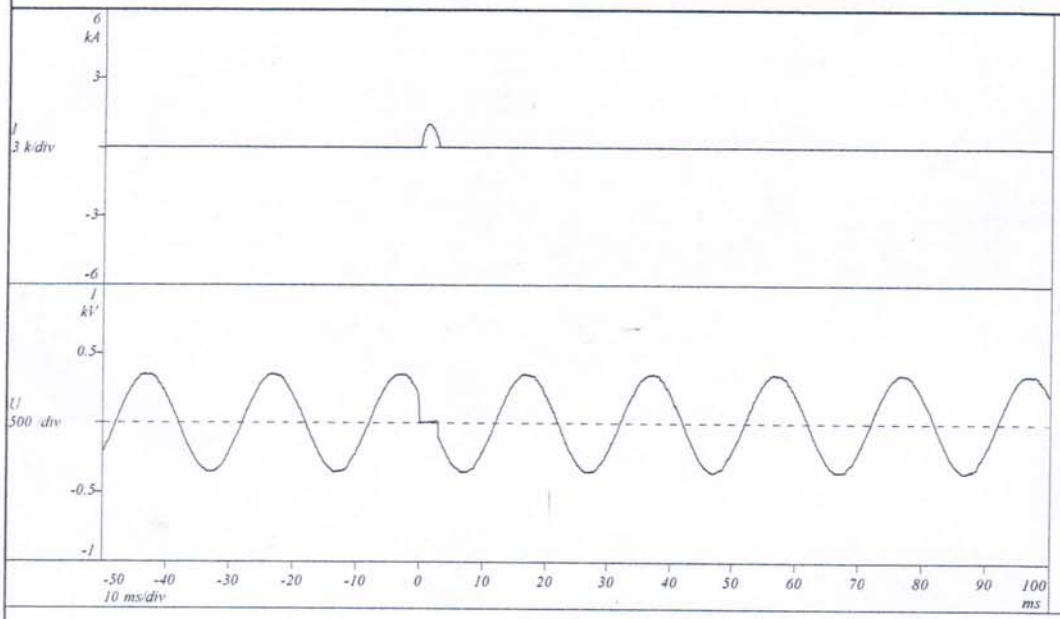
U = 252.V
I = 3.06kA
cosφ= 0.87

3#
O3
合闸角: 0°
I_p = 4.26 kA
I^2t= 83.5 kA^2s
通断时间: 9.42 ms

S1502042006

试 验 示 波 图

DY15-B042



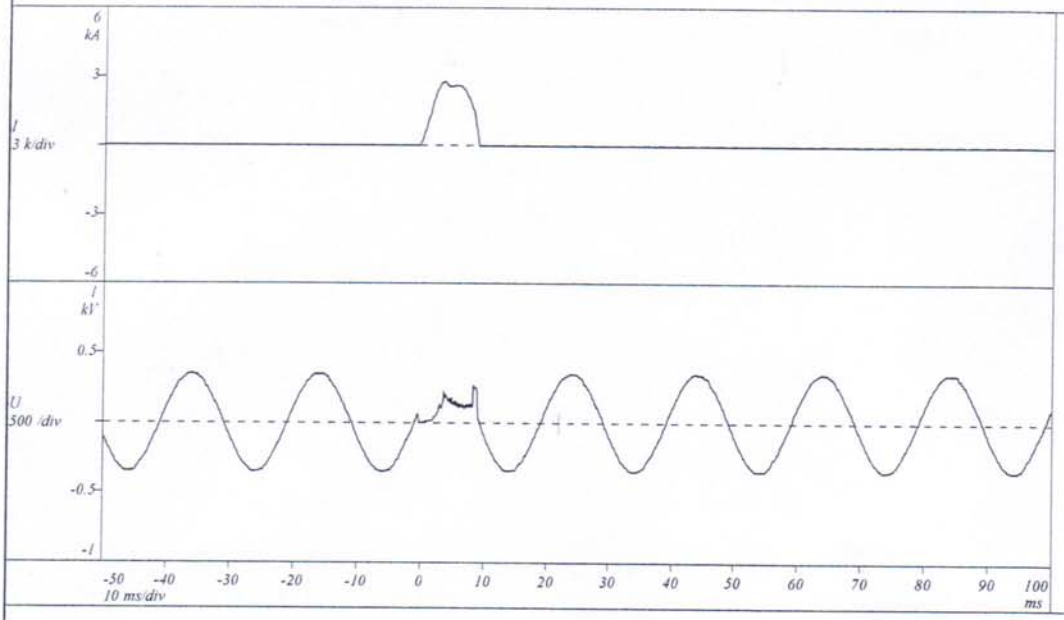
U_e : 250V
I_n : 80A

U = 252.V
I = 3.06kA
cosφ= 0.87

4#
CO1

I_p = 997. A
I^2t= 1.63 kA^2s
通断时间: 2.99 ms
燃弧时间: 1.24 ms

S1502042007



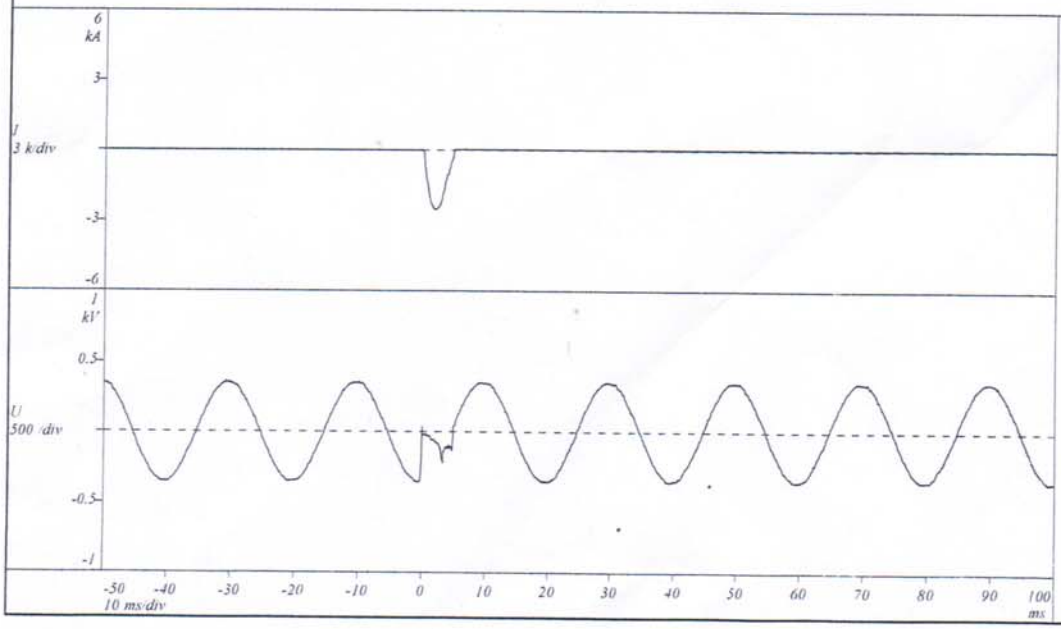
U_e : 250V
I_n : 80A

U = 252.V
I = 3.06kA
cosφ= 0.87

4#
CO2

Ip = 2.77 kA
I^2t= 40.4 kA^2s
通断时间: 8.86 ms
燃弧时间: 5.38 ms

S1502042008



U_e : 250V
I_n : 80A

U = 252.V
I = 3.06kA
cosφ= 0.87

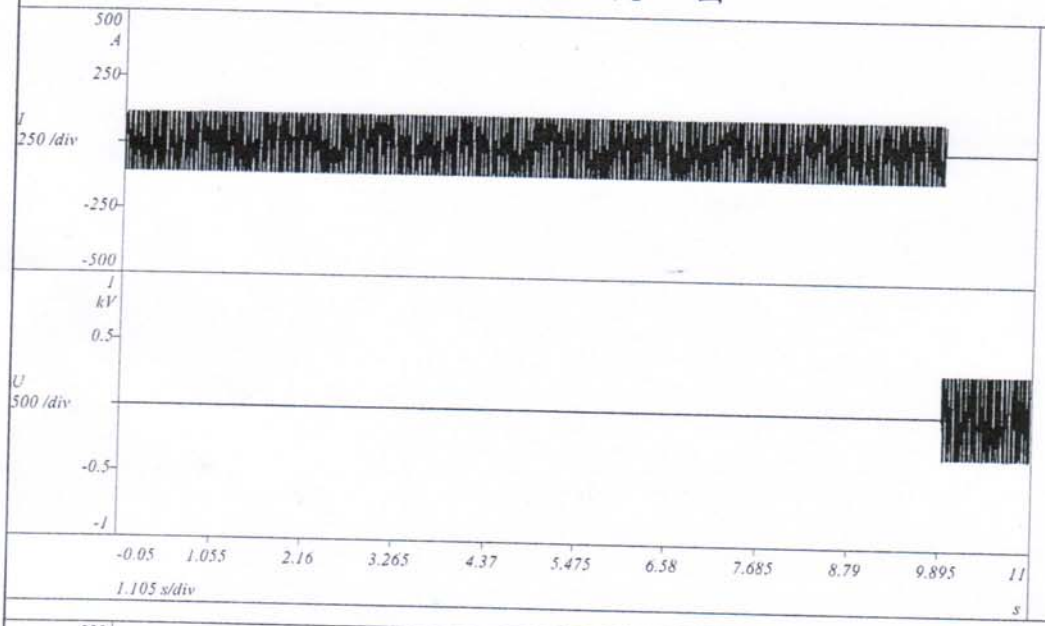
4#
CO3

I_p = 2.55 kA
I^2t= 15.9 kA^2s
通断时间: 4.78 ms
燃弧时间: 2.94 ms

S1502042009

试 验 示 波 图

DY15-B042



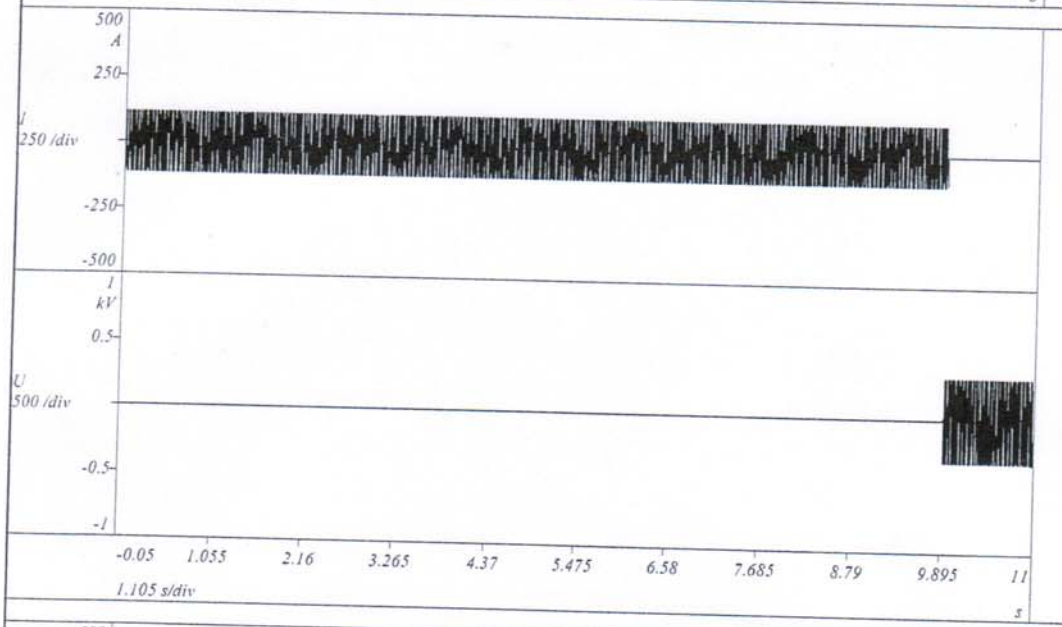
250 V
80 A
U = 253 V
I = 81 A
cosφ= 1.0

4#
NO. 1

$I_{p(a)}$= 115. A

通断时间: 10.0 s
燃弧时间: 4.34 ms

S1502042913



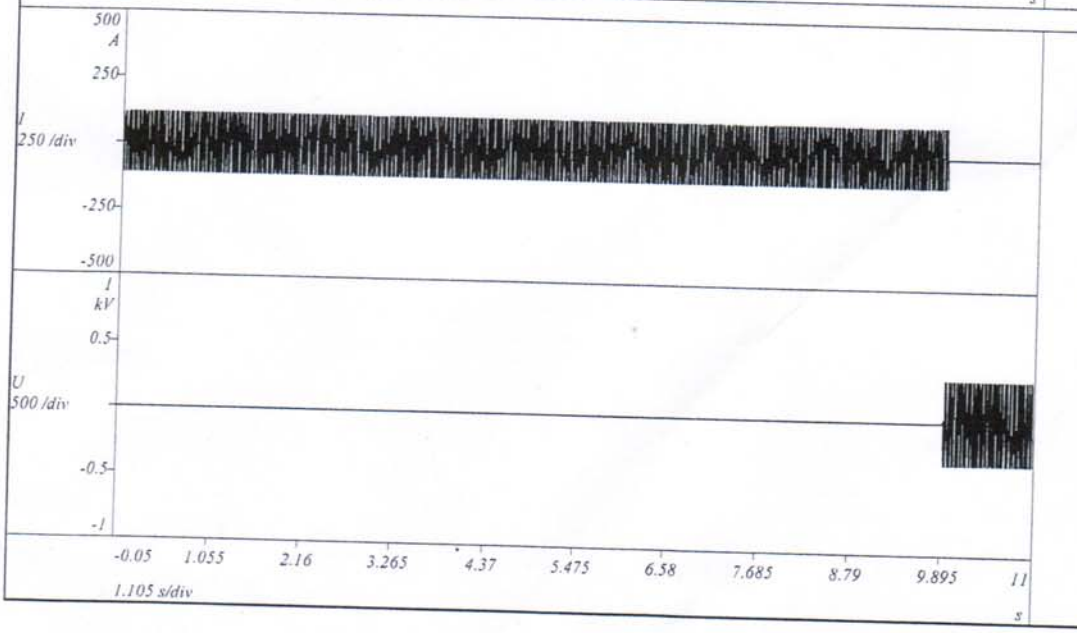
250 V
80 A
U = 253 V
I = 81 A
cosφ= 1.0

4#
NO. 2

$I_{p(a)}$= 114. A

通断时间: 10.0 s
燃弧时间: 5.01ms

S15020429914



250 V
80 A
U = 253 V
I = 81 A
cosφ= 1.0

4#
NO. 3

$I_{p(a)}$= 115. A

通断时间: 10.0 s
燃弧时间: 4.11 ms

S1502042915

主要试验仪器设备清单

MAIN TEST APPARATUS LIST

Serial No.	Name	Type	Serial No. of equipment	Used for the test (√)
1	Data collection system	SYNERGY	8583CA12A	√
2	Counter	DHC9J-J	8431DB09B	√
3	**Milliammeter**	D26-mA	8057CB86A	√
4	Synthetic control equipment	350A	8300CA07A	√
5	Stabilized temperature chamber	GW20	8302DA07A	√
6	Double-digital electric meter	GDM-8245	8427CB09A	√
7	Temperature and humidity recorder	ZDR-F20	8339CB08A	√
8	Power frequency withstand voltage device	NC- II	8049DB96A	√
9	Megohmmeter	ZC25B-3	8012CB93B	√
10	Impulse withstand voltage device	GC-18	8344DA08A	√
11	Data collection system	BE490XE	8073CA03A	√
12	Torque screwdriver	GNQ-6	8086DB05B	√
13	Temperature and humidity recorder	ZDR-F20	8421CB09A	√
14	400kA impulse voltage generator	400kV/30kJ	8475DA11A	√
15	Temperature and humidity recorder	ZDR-F20	8337CB08A	√