

Vojenský technický ústav, s.p.

odštěpný závod VTÚPV

Víta Nejedlého 691, 682 01 Vyškov, Czech Republic

CERTIFICATE

N° VTÚPV – 080/ 2022 / ZAHR

Applicant: **Shanghai Matis Electric Co., Ltd.**
上海麦豆电气有限公司
Room 320, 83 Huanhu West Third Road, Pudong New Area, Shanghai,
China

Product: **Over/Under Voltage Protector**

Tested Model: MT66
Derived Models: MT53UV, MT84UV, MT-OU14, MT-OU34

Manufacturer: **Shanghai Matis Electric Co., Ltd.**
Room 320, 83 Huanhu West Third Road, Pudong New Area, Shanghai,
China

Rating and principal characteristics: **Power supply: 400 V;**
Rated Current: 80 A;
Frequency: 50/60 Hz

Test results are described in the Test Reports No.:
B-S2206A1956 (tests made by Beide (Shenzhen) Product Service Limited)

**The sample of tested product conforms with the requirements of the following standards
harmonized with LVD Directive No. 2014/35/EU**

- EN 50550:2011+A1:2014

This certificate is valid until: 18. 08. 2027

After preparation of the necessary technical documentation as well as the conformity declaration, the
required CE marking can be affixed on the product. Other relevant directives have to be observed.
The CE mark shall appear according to this sample:



Vyškov 18. 08. 2022

Tel./Fax: +420 910 105 580
e-mail: milan.bezdek@vtusp.cz
<http://www.vtusp.cz>


Milan Bezdek
Certification Head



APPLICATION FOR LOW VOLTAGE DIRECTIVE

On Behalf of

SHANGHAI MATIS ELECTRIC CO.,LTD.

Over/Under Voltage Protector

Model : MT53UV,MT84UV,MT-OU14,MT-OU34,MT66

Prepared For : SHANGHAI MATIS ELECTRIC CO.,LTD.
Room 320, 83 Huanhu West Third Road, Pudong
New Area, Shanghai

Prepared By : Beide (Shenzhen) Product Service Limited
China: 6F, Bldg E, Hourui 3rd Ind Zone, Xixiang,
Bao'an Dist, Shenzhen, China

Date of Test : 2022-06-13 to 2022-06-22
Date of Report : 2022-06-22
Report Number : B-S2206A1956

LVD Report EN 50550 Power frequency overvoltage protective device for household and similar applications (POP)	
Testing laboratory	Beide (Shenzhen) Product Service Limited
Address	6F, Bldg E, Hourui 3rd Ind Zone, Xixiang, Bao'an Dist, Shenzhen, China
Report body.....	Beide (Shenzhen) Product Service Limited
Address (China).....	6F, Bldg E, Hourui 3rd Ind Zone, Xixiang, Bao'an Dist, Shenzhen, China
Applicant	SHANGHAI MATIS ELECTRIC CO.,LTD.
Address	Room 320, 83 Huanhu West Third Road, Pudong New Area, Shanghai
Client ID.....	CA9930
Report Query.....	 CERTIFICATE QUERY
Standard	EN 50550:2011+A1:2014
Test Result	Compliance with EN 50550:2011+A1:2014
Procedure deviation	N.A.
Non-standard test method	N.A.
Type of test object	Over/Under Voltage Protector
Trademark	/
Model/type reference	MT66
Rating	Rated Voltage Ue: 230/400VAC,50/60Hz Rated Current: 6A,10A,16A,20A,25A,32A,40A,50A,63A,80A,100A,125A Curve: B, C, D Poles: 2P, 4P Residual Current: 10mA, 30mA, 100mA, 300mA; Type: AC, A, B
Manufacturer	SHANGHAI MATIS ELECTRIC CO.,LTD.
Address	Room 320, 83 Huanhu West Third Road, Pudong New Area, Shanghai

General remarks

This report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item(s) tested.

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

"(see remark #)" refers to a remark appended to the report.

"(see Annex #)" refers to an annex appended to the report.

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

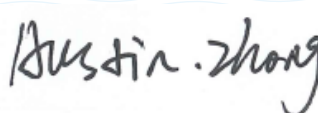
Remark:

1. Photos view:

(See appendix 1)

2. Copy of marking plate:

(See appendix 2)

Possible test case verdicts :	
test case does not apply to the test object	: N (.A.)
test object does meet the requirement	: P(ass)
test object does not meet the requirement	: F(ail)
Name and address of the testing laboratory : <u>Beide (Shenzhen) Product Service Limited</u> <u>6F, Bldg E, Hourui 3rd Ind Zone, Xixiang,</u> <u>Bao'an Dist, Shenzhen, China</u>	
 Reported by : _____ Signature / Austin.Zhong Date <u>2022-06-22</u>  Checked by : _____ Signature / Anna.Deng Date <u>2022-06-22</u>  Approved by : _____ Signature / Mao.Wang Date <u>2022-06-22</u>	



Clause	Requirement – Test	Result - Remark	Verdict
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4	Classification		P
4.1	According to the method of construction		P
4.1.1	POP assembled to the main protective device in factory by the manufacturer;		P
4.1.2	POP to be coupled by mechanical means on site with the main protective device;		N
4.1.3	POP to be assembled on site with the release unit associated or integrated to the main protective device.		N
4.2	According to the main protective device		P
4.2.1	POP for circuit breakers;		P
4.2.2	POP for RCBs;		N
4.2.3	POP for RCCBs.		N
4.3	According to the range of ambient air temperature (only for POP according to 4.2.2 and 4.2.3)		N
4.3.1	POP for use at ambient air temperatures between - 5 °C and + 40 °C.		N
4.3.2	POP for use at ambient air temperatures between - 25 °C and + 40 °C.		N
4.4	According to the number of monitored line to neutral conductor voltages		P
4.4.1	1 monitored line to neutral conductor voltages;		P
4.4.2	3monitored lines to neutral conductor voltages.		N

5	Characteristics		P
5.1	Summary of characteristics		P
	The characteristics of the standard of the main protective device and the followings apply: – protection against external influences; – method of mounting; – method of connection; – value of rated operational voltage; – value of rated frequency; – limit values of break times and non-actuating times; – range of ambient air temperature		P
5.2	Limit values of the break times and non-actuating times		P
	The limit values of break time (see 3.7) and non-actuating time (see 3.8) for the POP are given in Table 1.		P

EN 50550			
Clause	Requirement – Test	Result - Remark	Verdict

6	Marking and other product information		P
6.1	Standard marking		P
	In general, each POP shall be marked in a durable manner with all the following data: a) manufacturer's name or trade mark; b) type designation, catalogue number or serial number; c) rated voltage with the symbol ~; d) POP or EN 50550; e) protection degree (only if different from IP20). f) the type designation and catalogue number of the main protective device for the POP intended to be associated with; g) assembling method and wiring; h) instructions for checking operation after assembly to verify the mechanical operation of the main protective device in case of devices according to classification 4.1.2; i) range of the ambient air temperature; j) for the devices classified according to 4.1.2 and 4.1.3, information about the needs to take into consideration the range of the ambient air temperature of the main protective device.	See table	P
6.2	Additional marking		P
	For POP classified according to 4.1.1, additional marking to other standards (EN or IEC or other) is allowed under the following conditions: – the POP shall comply with all the requirements of the additional standard; – the relevant standard to which the additional marking refers shall be indicated adjacent to this marking and shall be clearly differentiated or separated from the standard marking according to 6.1.		P

7	Standard conditions for operation in service		P
7.1	General		P
	The POP complying with this European Standard shall be capable of operating under the standard conditions given by the relevant MPD standard(s).		P
7.2	Conditions of installation		P
	POP shall be installed in accordance with the manufacturer's instructions. POP according to 4.1.2 and 4.1.3 shall only be installed together with the main protective device declared by the manufacturer.		P
7.3	Pollution degree		P
	POP according to this European Standard are intended for environment with pollution degree 2, i.e.: normally, only non-conductive pollution occurs; occasionally, however, a temporary conductivity caused by condensation may be expected.	pollution degree 2	P

Clause	Requirement – Test	Result - Remark	Verdict
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8	Requirements for construction and operation		P
8.1	Mechanical design		P
8.1.1	General		P
8.1.2	Mechanism		P
8.1.2.1	POP shall be so designed and constructed not to change the functional characteristic of the main protective device.		P
8.1.2.2	The association of the POP and the main protective device shall be made in a proper way according to the manufacturer instructions, in order to avoid uncorrected matching.		P
8.1.3	Clearances and creepage distances		P
	The minimum required clearances and creepage distances are given in Table 2 which is based on the POP being designed for operating in an environment with pollution degree 2. However, the clearances of items 2 and 4 may be reduced provided that the tests at rated impulse voltage are withstood.		P
8.1.4	Clearances and creepage distances for electronic circuits connected		P
	between live parts or between live parts and the earth For electronic circuits connected: – between live parts, or – between live parts and the earth circuit when the contacts are in the closed position,		P
8.1.5	Screws, current-carrying parts and connections		P
	The relevant subclause of the standard of the main protective device applies: a) 8.1.4 of EN 60898-1:2003 for devices according to 4.2.1; b) 8.1.4 of EN 61008-1:2004 for devices according to 4.2.3; c) 8.1.4 of EN 61009-1:2004 for devices according to 4.2.2. Compliance is checked by tests of 9.12.		P
8.1.6	Terminals for external conductors		P
	The relevant subclause of the standard of the main protective device applies: a) 8.1.5 of EN 60898-1:2003 for devices according to 4.2.1; b) 8.1.5 of EN 61008-1:2004 for devices according to 4.2.3; c) 8.1.5 of EN 61009-1:2004 for devices according to 4.2.2. Compliance is checked by tests of 9.13.		P
8.2	Protection against electric shock		P
	The relevant subclause of the standard of the main protective device applies: a) 8.2 of EN 60898-1:2003 for devices according to 4.2.1; b) 8.2 of EN 61008-1:2004 for devices according to 4.2.3; c) 8.2 of EN 61009-1:2004 for devices according to 4.2.2. Compliance is checked by tests of 9.14 and 9.4.		P

EN 50550			
Clause	Requirement – Test	Result - Remark	Verdict
8.3	Dielectric properties and isolating capability		P
	When fitted on a main protective device, the POP shall not impair the suitability for isolation of the main protective device. Compliance is checked by the tests of 9.4.		P
8.4	Temperature rise		P
	The corresponding subclause of the standard of the main protective device applies: a) 8.4 of EN 60898-1:2003 for devices according to 4.2.1; b) 8.4 of EN 61008-1:2004 for devices according to 4.2.3; c) 8.4 of EN 61009-1:2004 for devices according to 4.2.2. Compliance is checked by the tests of 9.5.		P
8.5	Operating characteristic		P
8.5.1	Operating characteristic		P
	The operating characteristic of the POP shall be such that they ensure adequate protection, without premature operation. Compliance is checked by the test of 9.6.		P
8.5.2	Effect of the ambient air temperature on the tripping characteristic		P
	Ambient temperatures other than the reference temperature, within the limits of -5 °C and +40 °C, shall not unacceptably affect the tripping characteristic of POPs. Compliance is checked by the test of 9.6.3.		P
8.6	Mechanical and electrical endurance		P
	POP shall be capable of performing an adequate number of cycles of operations. Compliance is checked by the test of 9.7.		P
8.7	Performance at short-circuit currents		P
	POP shall be capable of withstanding a specified number of short-circuit operations of the main protective device during which they shall neither endanger the operator nor initiate a flashover between live parts or between live parts and earth. Compliance is checked by the test of 9.3.2.		P
8.8	Resistance to mechanical shock and impact		P
	The relevant subclause of the standard of the main protective device applies: a) 8.9 of EN 60898-1:2003 for devices according to 4.2.1; b) 8.8 of EN 61008-1:2004 for devices according to 4.2.3; c) 8.8 of EN 61009-1:2004 for devices according to 4.2.2. Compliance is checked by tests of 9.15.		P

EN 50550			
Clause	Requirement – Test	Result - Remark	Verdict
8.9	Resistance to heat		P
	The relevant subclause of the standard of the main protective device applies: a) 8.10 of EN 60898-1:2003 for devices according to 4.2.1; b) 8.9 of EN 61008-1:2004 for devices according to 4.2.3; c) 8.9 of EN 61009-1:2004 for devices according to 4.2.2. Compliance is checked by tests of 9.16.		P
8.10	Resistance to abnormal heat and to fire		P
	The relevant subclause of the standard of the main protective device applies: a) 8.11 of EN 60898-1:2003 for devices according to 4.2.1; b) 8.10 of EN 61008-1:2004 for devices according to 4.2.3; c) 8.10 of EN 61009-1:2004 for devices according to 4.2.2. Compliance is checked by tests of 9.17.		P
8.11	Ageing of electronic components		N
	POP shall operate reliably even after long service, taking into account the ageing of their components. Compliance is checked by the tests of 9.3.3.		N
8.12	Behaviour at low ambient air temperature		P
	POP for use in the range of -25 °C to +40 °C, according to classification 4.3.2, shall operate reliably at low temperatures. Compliance is checked by the tests of 9.18.		P
8.13	Electromagnetic compatibility		N
	POP shall operate reliably even in presence of electromagnetic disturbances and shall comply with relevant EMC requirements. Compliance is checked by the tests of 9.10.		N
8.14	Safety performance of overstressed POPs		P
	POP shall be able to withstand permanently 1,1 times the phase to phase voltage. Compliance is checked by inspection and by the test of 9.11.		P

EN 50550			
Clause	Requirement – Test	Result - Remark	Verdict
9	Tests		P
9.1	General		P
9.2	Test condition		P
	The POP assembly is mounted individually according to manufacturer's instructions and in free air, at an ambient temperature as required by the standard of the MPD, unless otherwise specified. POP designed for installation in individual enclosures are tested in the smallest of such enclosures specified by the manufacturer.		P
9.3	Verification of the influence of the POP on the correct operation of the main protective device		P
9.3.1	Verification of the operating characteristic of the main protective device		P
9.3.2	Short-circuit test		P
9.3.2.1	General conditions for short-circuit test		P
	The POP shall be in a new and clean condition, assembled to a main protective device in a new and clean condition.		P
9.3.2.2	Test circuit and test quantities		P
	a) 9.12.2 and 9.12.4 of EN 60898-1:2003 for devices according to 4.2.1; b) 9.11.2.1 of EN 61008-1:2004 for devices according to 4.2.3; c) 9.12.2 and 9.12.3 of EN 61009-1:2004 for devices according to 4.2.2.		P
9.3.2.3	Test procedure		P
	a) 9.12.11.4.3 of EN 60898-1:2003 for devices according to 4.2.1; b) 1) 9.11.2.3 b) of EN 61008-1:2004 for devices according to 4.2.3; 2) 9.11.2.4 a) of EN 61008-1:2004 for devices according to 4.2.3; c) 9.12.11.4 c) and 9.12.11.4 d) of EN 61009-1:2004 for devices according to 4.2.2. After the tests shall be verified the prescriptions according to 9.3.2.4.		P
9.3.2.4	Condition of the POP after the test		P
	After the test the POP assembly shall perform the following test: a) 9.12.12.2 of EN 60898-1:2003 for devices according to 4.2.1; b) 9.11.2.1 i) of EN 61008-1:2004 for devices according to 4.2.3; c) 9.12.12.2 and 9.12.12.3 of EN 61009-1:2004 for devices according to 4.2.2. After the test, POP assembly shall be capable to perform the tests according to 9.6.2.2 and 9.6.2.3.		P

EN 50550			
Clause	Requirement – Test	Result - Remark	Verdict

9.3.3	Verification of ageing of electronic components		P
	After the test, POP shall be capable to perform the tests according to 9.6.2.2 and 9.6.2.3.		P
9.3.4	Void		--
9.3.5	Test of indelibility of marking		P
	After this test, the marking shall be easily legible. The marking shall also remain easily legible after all the tests of this European Standard. It shall not be easily possible to remove labels and they shall show no curling.		P
9.4	Test of dielectric properties		P
	The following subclauses of the standard for the main protective device apply, as far as possible, on the POP assembly, the POP supplied as for normal use with its rated voltage: a) 9.7 of EN 60898-1:2003 for devices according to 4.2.1; b) 9.7 of EN 61008-1:2004 for devices according to 4.2.3; c) 9.7 of EN 61009-1:2004 for devices according to 4.2.2. with the following modifications. If the POP assembly is provided with a terminal intended for the connection of functional earthing conductors, this terminal is treated like a pole. During the verification of impulse withstand voltage across the open contacts (suitability for isolation), there shall be no disruptive discharges and no operation of surge protective components, if any.		P
9.5	Temperature rise		P
	The following subclauses of the standard for the main protective device apply, as far as possible, on the POP assembly, the main protective device charged with In and the POP supplied as for normal use with its rated voltage: a) 9.8 of EN 60898-1:2003 for devices according to 4.2.1; b) 9.8 of EN 61008-1:2004 for devices according to 4.2.3; c) 9.8 of EN 61009-1:2004 for devices according to 4.2.2. The test current in the main protective devices may be generated at reduced voltage but the POP shall be supplied with their rated voltage. For this reason tests shall be made on samples specially prepared by the manufacturer or according to his instructions.		P

EN 50550			
Clause	Requirement – Test	Result - Remark	Verdict
9.6	Verification of the operating characteristics		P
9.6.1	Test circuit		P
	The POP is installed as in normal use.		P
9.6.2	Off-load characteristic tests with sinusoidal alternating voltages at the reference temperature of $20\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$		P
9.6.2.1	General		P
9.6.2.2	Verification of the correct operation in case of sudden appearance of overvoltage		P
9.6.2.3	Verification of minimum non actuating times		P
9.6.3	Test of the effect of the ambient air temperature on the operating characteristic		P
	The tests of 9.6.2.2 and 9.6.2.3 are repeated, under the following conditions:		P
	a) ambient temperature: $-5\text{ }^{\circ}\text{C}$; b) ambient temperature: $+40\text{ }^{\circ}\text{C}$ with the POP assembly being supplied with the rated voltage, until it attains thermal steady-state conditions. In practice these conditions are reached when the variation of temperature-rise does not exceed 1 K per hour; c) ambient temperature: $-25\text{ }^{\circ}\text{C}$, for POP classified according to 4.3.2 in conjunction to MPD rated for $-25\text{ }^{\circ}\text{C}$.		P
9.7	Verification of the mechanical and electrical endurance		P
9.7.1	General test conditions		P
	The POP assembly is fixed to a metal support. The test is made at rated operational voltage.		P
9.7.2	Test procedure		P
9.7.3	Condition of the POP after test		P

EN 50550			
Clause	Requirement – Test	Result - Remark	Verdict
9.8	Tests of creepage distances and clearances for electronic circuits (abnormal conditions)		P
9.8.1	These tests replace the verifications of creepage distances and clearances of electronic circuits		P
	connected between live parts (phases and neutral) and/or between live parts and the earth circuit. POP shall not create fire and/or shock hazards under abnormal conditions likely to occur in service. The conditions under which a component is used within a POP shall be in accordance with the operating characteristics marked on the component and/or given in the data provided by the manufacturer.		P
9.8.2	When POP are exposed to abnormal conditions, no part shall reach temperatures likely to cause		P
	danger of fire to the surroundings of the POP, and no live parts shall become accessible. Compliance is checked by subjecting the POP assembly to a heating test under fault conditions as described in 9.8.3.		P
9.8.3	Unless otherwise specified, the tests are made on POP assembly, connected and loaded as in normal use.		P
9.9	Requirements for capacitors and specific resistors and inductors used in electronic circuits		N
9.9.1	General		N
9.9.2	Capacitors		N
	Capacitors, – the short-circuiting or disconnection of which would cause an infringement of the requirements under fault conditions with regard to shock or fire hazard, – the short-circuiting of which would cause a current of 0,5 A or more through the terminals of the capacitor, – for suppression of electromagnetic interference, shall comply with EN 60384-14.		

EN 50550			
Clause	Requirement – Test	Result - Remark	Verdict
9.9.3	Resistors		N
	Resistors, the short-circuiting or interruption of which would cause an infringement of the requirements with regard to the protection against fire and electric shock in case of a defect, shall have an adequately constant value under the overload conditions prevailing in the electronic switch.		N
9.9.4	Inductors and windings		N
	Inductors and windings shall comply with the requirements of EN 61558-1 and the relevant parts of EN 61558-2 series as applicable.		N
9.10	Electromagnetic compatibility		N
	The following tests are based on EN 61543 and are performed on the POP assembly.		N
9.10.1	Immunity tests		N
9.10.2	Emission tests		N
9.11	Test of safety performance of overstressed POPs		P
	The POP assembly is supplied at the rated voltage until thermal stability is attained.		P
9.12	Test of reliability of screws, current-carrying parts and connections		P
	The following subclauses of the standard for the main protective device apply, as far as possible, on the POP assembly: a) 9.4 of EN 60898-1:2003 for devices according to 4.2.1; b) 9.4 of EN 61008-1:2004 for devices according to 4.2.3; c) 9.4 of EN 61009-1:2004 for devices according to 4.2.2.		P
9.13	Test of reliability of terminals for external conductors		P
	The following subclauses of the standard for the main protective device apply, as far as possible, on the POP assembly: a) 9.5 of EN 60898-1:2003 for devices according to 4.2.1; b) 9.5 of EN 61008-1:2004 for devices according to 4.2.3; c) 9.5 of EN 61009-1:2004 for devices according to 4.2.2.		P

EN 50550			
Clause	Requirement – Test	Result - Remark	Verdict
9.14	Verification of protection against electric shock		P
	The following subclauses of the standard for the main protective device apply, as far as possible, on the POP assembly: a) 9.6 of EN 60898-1:2003 for devices according to 4.2.1; b) 9.6 of EN 61008-1:2004 for devices according to 4.2.3; c) 9.6 of EN 61009-1:2004 for devices according to 4.2.2.		P
9.15	Verification of resistance to mechanical shock and impact		P
	The following subclauses of the standard for the main protective device apply, as far as possible, on the POP assembly: a) 9.13 of EN 60898-1:2003 for devices according to 4.2.1; b) 9.12 of EN 61008-1:2004 for devices according to 4.2.3; c) 9.13 of EN 61009-1:2004 for devices according to 4.2.2.		P
9.16	Test of resistance to heat		P
	The following subclauses of the standard for the main protective device apply, as far as possible, on the POP assembly: a) 9.14 of EN 60898-1:2003 for devices according to 4.2.1; b) 9.13 of EN 61008-1:2004 for devices according to 4.2.3; c) 9.14 of EN 61009-1:2004 for devices according to 4.2.2.		P
9.17	Resistance to abnormal heat and to fire		P
	The following subclauses of the standard for the main protective device apply, as far as possible, on the POP assembly: a) 9.15 of EN 60898-1:2003 for devices according to 4.2.1; b) 9.14 of EN 61008-1:2004 for devices according to 4.2.3; c) 9.15 of EN 61009-1:2004 for devices according to 4.2.2.		P
9.18	Verification of the correct operation at low ambient air temperatures for RCDs for use at temperatures between -25 °C and +40 °C		P
	For POP classified according to 4.3.2, the relevant subclause of the standard of the MPD applies for the POP assembly: a) 9.Z1 of EN 61008-1:2004 for devices according to 4.2.3; b) 9.Z1 of EN 61009-1:2004 for devices according to 4.2.2.		P

	TABLE: Heating test		P
	Test Voltage (V)..... :	400V	—
	Ambient (C)..... :	24.2°C	—
Thermocouple locations:		Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)
Terminal		34.1	110
Enclosure		6.2	75
Switch		10.8	75
Supplementary information:			

	TABLE: Dielectric strength		P
Test voltage applied between:		Test potential applied (V)	Breakdown / flashover (Yes/No)
Between the phase and the path connected together		1600VAC	No
Supplementary information:			

		TABLE: Resistance to heat and fire - Glow wire tests						P
Object/ Part No./ Material	Manufacturer / trademark	Glow wire test (GWT); (°C)						Verdict
		550	650		750		850	
			te	ti	te	ti		
Enclosure	/	--	0	0	--	--	--	P
Object/ Part No./ Material	Manufacturer / trademark	Glow-wire flammability index (GWFI), °C				GW ignition temp. (GWIT), °C		Verdict
		550	650	750	850	675	775	
--	--	--	--	--	--	--	--	--
The test specimen passed the glow wire test (GWT) with no ignition [(te – ti) ≤ 2s] (Yes/No):								Yes
If no, then surrounding parts passed the needle-flame test of annex E (Yes/No)								N/A
The test specimen passed the test by virtue of most of the flaming material being withdrawn with the glow-wire (Yes/No)?								No
Ignition of the specified layer placed underneath the test specimen (Yes/No).....								No
Supplementary information:								
- 550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF								
- The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances								

TABLE: 1 - List of components and circuits relied on for safety				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Mark(s) of conformity ¹⁾
Enclosure	ANHUI KÜAIJIEELECTRONI CS CO LTD	PC-1	V-0,	UL



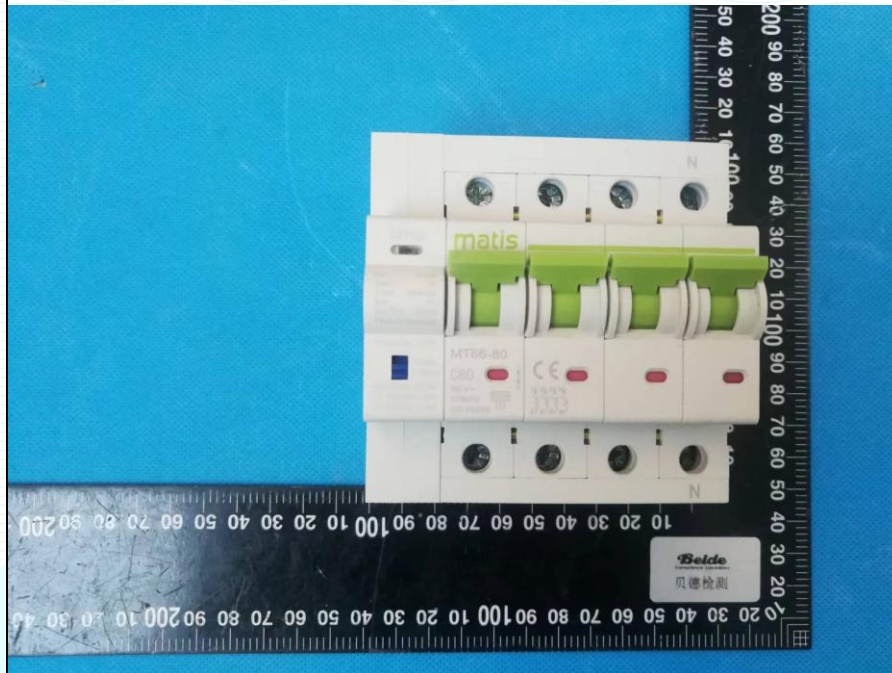
Appendix 1

Whole views of EUT

Photo 1

View:

- ☒ front
- ☐ rear
- ☐ right side
- ☐ left side
- ☐ top
- ☐ bottom
- ☐ internal



Appendix 2

Product marking of EUT

Over/Under Voltage Protector
Model: MT66

Rated Voltage Ue: 400VAC,50/60Hz
Rated Current: 80A
Poles: 4P

SHANGHAI MATIS ELECTRIC CO.,LTD.



EU Declaration of Conformity

We, Shanghai Matis Electric Co., Ltd.

Room 320, 83 Huanhu West Third Road, Pudong New Area, Shanghai, China

Declare that the product described below is in conformity with the Directive:

2014/35/EU Low Voltage Directive

Product: Over/Under Voltage Protector

Models: MT66, MT53UV, MT84UV, MT-OU14, MT-OU34

Having been examined to the requirements of the following standards:

EN 50550:2011+A1:2014



Representative: _____

(signature & stamp)

Place/Date: _____

