

TEST REPORT

On Behalf of

Prepared For :	ZHEJIANG JINGHONG ELECTRIC CO., LTD .
12 (12) 10 12 12 12 12 12 12 12	No.221.Wei shijiu Road,Yueqing economic&development Zone,325600,Zhejiang,China.
Trade Mark :	15 test to
Product Name :	terminal block
Model(s):	UKK-80, UKK-125, UKK-160, UKK-250, UKK-400, UKK-500
Prepared By:	Shenzhen ZTS Testing Service Co., Ltd. 808, Building 1, 7th Industrial Zone, Yulv Community, Yuta ng Ctreet Guangming District, Shenzhen, Guangdong, China Tel: 400-8788-298 Tel:0755-23245950 Email: zts@zts-test.com Web: www.zts-test.com
Test Date:	Oct. 29, 2021- Nov. 04, 2021
Date of Report:	Nov. 04, 2021
Report No. :	ZTS21102903VRS

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen ZTS Testing Service Co., Ltd.



TEST REPORT

EN 60947-7-1:2009

Low-voltage switchgear and controlgear -- Part 7-1: Ancillary equipment - Terminal blocks for copper conductors

Reference No. ZTS21102903VRS

Date of issue Nov. 04, 2021

Contents 16 Pages

Testing laboratory

Name Shenzhen ZTS Testing Service Co., Ltd.

Guangming District, Shenzhen, Guangdong, China

Testing location: Same as above

Client

Name...... ZHEJIANG JINGHONG ELECTRIC CO., LTD .

Zone,325600,Zhejiang,China.

Test specification

Standard: EN 60947-7-1:2009

Test procedure: Type Approval

Non-standard test method: N.A.

Test item

Description :: terminal block

Trademark N/A

Model and/or type reference.....: UKK-80

Manufacturer ZHEJIANG JINGHONG ELECTRIC CO., LTD .

Zone,325600,Zhejiang,China.

Rating(s) : AC 690 V, 50/60Hz, 55.2 KW max



Testing procedure and te	sting location	Strating 12 Leading 12 Leating 12
Laboratory name	: Shenzhen ZTS T	esting Service Co., Ltd.
Testing location/address:		7th Industrial Zone, Yulv Community, Yutang Street, rict, Shenzhen, Guangdong, China
Testing Iprocedure	: TL⊠ RMT □] SMT □ WMT □ TMP □
Prepared by (Engineer)	: Wilson Bin	Wilson Bin Jethey Way (2 TS) 54
Reviewed By (Supervisor)	Jeffrey Wang	ing the designing the designing the designing the designing the designing
Reviewer by (Quality Manager)	: Tony mo	Tony Mo



POSSIBLE TEST CASE VERDICTS:	the 12 testing 1/2
- test case does not apply to the test object	N (N/A)
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
TESTING:	The The Leafing The Leafing The Leafing The Leafing The Leafing The Leafing The The Thing The Leafing
Date of receipt of test item	Oct. 29, 2021
Date (s) of performance of tests	Oct. 29, 2021- Nov. 04, 2021

General remarks

This test 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 tested.

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

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

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

Remark:



Copy of marking plate:

Hot Dog Spit Toaster

Model: UKK-80

Rating: AC690V, 50/60Hz, 55.2 KW max







ZHEJIANG JINGHONG ELECTRIC CO., LTD.

Made in China

Summary of testing:

This product was tested and found to compliance with requirement of EN 60947-7-1:2009



	EN 60947-7-1		
Clause	Requirement - Test	Result - Remark	Verdict
2 12 16 1 108	PRODUCT INFORMATION	12 - 12 - 13 - 13 - 13 - 13 - 13 - 13 -	P
5.1	Marking	Les les lus Les lus Les les les les lus Les les	Ing 17 P Co
5 5 1 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A terminal block shall be marked in a durable and	legible manner with the following:	(6 24 1118 175
ILS learing ILS LE	a) the name of the manufacturer or a trade mark by which the manufacturer can be readily identified;	esting to teating the sesting the teating to the sesting the teating the sesting the teating the teating the teating the teating to teating the teatin	
Lesting 122 Lestin	b) a type reference permitting its identification in order to obtain relevant information from the manufacturer or his catalogue.	12	
5.2	Additional information	string 112 Lessing 112 Lessing 112 Lessing 11	S Tes But
14 12 1827 118 12 1827 118 12 1827 118 12 1827 118	The following information shall be stated by the m the manufacturer's data sheet or his catalogue or		12 12 168
testing 112 testing 112 tes	a) IEC 60947-7-1, if the manufacturer claims compliance with this standard;	IEC 60947-7-1	Pis Pis Pis Pis Pis Pis Pis Pis Pis Pis
2 Leg 148 12	b) the rated cross-section;	2.5mm ²	Les Bug
fing Nig Leadi ing Nig Leading of Nig Leading Nig Leading Nig Leading	c) the rated connecting capacity, if different from Table 2, including the number of conductors simultaneously connectable;	12 Legitum	The Tree of
- 100 Apr 620	11 5 de de 100 de 11, de 100 de de 100 de 10 de 11, de 100	to be the dr. do do do do to the dr.	- Com 1 1 1 1 1

690V

6 Testing	Normal service, mounting and transport conditions	estim 12 testim 12 Prim
6.1	Normal service conditions	Legitum II. Legitum II. Legi
Still 112 165	Equipment shall be capable of operating	The Least was the Least we be to
6.1.1	Ambient air temperature	175 Test 111 15 Test P. 175
RITS TESTING IN	The ambient air temperature does not exceed $+40^{\circ}\mathrm{C}$	Seer 118 122 Leer
erius Ne les Fius Ne les Tius Ne les	The lower limit of the ambient air temperature is - 5°C	12 Lez 111 12 Lez 11 12 Lez 1
6.1.2	Altitude	UR TO LEST TUR TO LEST BY TO
The resting the	The altitude of the site of installation does not exceed 2000m	Legi ing Ale Legi ing Ale Legi ering Ale Leging Ale Leging sing Ale Leging Ale Columb
6.1.3	Atmospheric conditions	6 2 5 1 10 12 15 16 10 10 10 16 16 16 16 16 16 16 16 16 16 16 16 16
6.1.3.1	Humidity The Teaching The Teach	12 Les 14 12 12 2 22 14 P. 12
1, 18 1, 18	The relative humidity of the air does not exceed 50% at a maximum temperature of +40°C. Higher relative humiditles may be permitted at lower temperatures e.g. 90% at +20°C	Les (114) 12 Les (
6.1.3.2	Pollution degree	12 102 1116 112 12 1111 P12
162, 148 112	The pollution degree (see 2.5.58) refer to the	18 112 Les till 12 Les 1 18 14

d) the rated insulation voltage (Ui);

when determined;

Ćlause 6;

e) the rated impulse withstand voltage (Uimp),

f) service conditions, if different from those of

g) conventional free air thermal current (Ith).

N

N



	EN 60947-7-1		
Clause	Requirement - Test	Result - Remark	Verdict
The Logicus	environmental conditions	6 = 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	12 182 14 12 1821 16 16 16 16 16 16 16 16 16 16 16 16 16
ue Tiz Lezelu	Pollution degree 1: No pollution.	ייין איין איין איין איין איין איין איין	175 Test 178 17N Te
Fine Tip Lea	Pollution degree 2	The Leading No Leading No Lead	The The Leaving The
	.a temporary conductivity caused by condensation may be expected		1
Liz legins	Pollution degree 3	Esting 1/2 Learing 1/2 Learing	15 100 11 Pics
108 115 1851	Conductive pollution occurs.due to condensation	2 Leaving N.2 Leaving N.2 Leaving	BUT TESTING ITS TO
	Pollution degree 4	The Lear Time The Lear Time The Lear	Time Its Lesting Its
Leging Vie	The pollution generates. by conductive dust or by rain	The The test time time the test time time the test time time the test time time time time the test time time time time time time	estimate fest Not
175 Testing	Equipment for industrial applications is generally for use in pollution degree 3 environment	Steating III Leating III Leating Seating Seati	12 Leading
Lesting N. Lesting N. Lesting N. Celing N. Lester	Equipment for household and similar applications is generally for use in pollution degree 2 environment	The Note that the Note that Note tha	108 715 1 5 108 715 108 116 116 116 116 116 116 116 116 116 11
6.1.4	Shock and vibration	certing 12 teerting 12 teerting 1	D LESCHING TO WEEK
148 12 LEZIN	Under consideration	Lesting Its Lesting Its Lesting	175 Test 118 17 N TE
6.2	Conditions during transport and storage	My Learing My Learing My Lear	THE TE TO STILL TO
uk 12 testin 12 testink 12 12 testink 12 12 testink 12 12 testink 12	The following temperature range applies during transport and storage: between -25 $^{\circ}$ C and +55 $^{\circ}$ C and for short periods not exceeding 24h up to +70 $^{\circ}$ C	Lesting I.L. Lesti	" 112 Lez 1918 12 Lez Lez 1918 12 Lez 1918 Lez 1918 12 Lez 1918 Lez 1918 12 Lez 1918 Est 1918 12 Lez 1918 12 Est 1918 12 Lez 1918 12
6.3	Mounting	12 621 118 112 1521 118 112 1521	ne 175 Testing P
Seeting 12 Lesting 12 Lesting 12 Lesting 12	The equipment shall be mounted in accordance with the manufacture's instructions.		esting The Testing Testing Testing Testing Testing Testing
7. 15 100 100 100 100 100 100 100 100 100	CONSTRUCTIONAL AND PERFORMANCE REQ	UIREMENTS	15 Test 11 P Test
7.1	Constructional requirements	12 1821 148 12 188 148 12 182 1	11/2 1/2 COST 11/2 1/2
7.1.1	Clamping units	THE TIS LESS THE VIZ LESS THE VIZ LE	esting The Lesting D
S Testing T	Subclause 7.1.8.1 of IEC 60947-1 applies	11 14 12 162 148 12 162 148 12	Legiting St. Legitu

7. 15 100	CONSTRUCTIONAL AND PERFORMANCE REQ	UIREMENTS	12 Les 11/2 1 1 Las
7.1	Constructional requirements	8 12 1527 108 12 1527 108 12 1537 12 1527 108 12 1527 118 12 1527 12 15 15 108 12 15 15	06 175 105 110 P 75 1
7.1.1	Clamping units	ing Mg sering Mg leging Mg	Part Part
Le Lear Ling	Subclause 7.1.8.1 of IEC 60947-1 applies	The Market Marke	Testing Its Peting
Lesting 122 Sting 122 Lesting 122 Sting 122 Lesting	The clamping units shall allow the conductors to be connected by means ensuring that a reliable mechanical linkage and electrical contact is properly maintained.	The first time the less time time time time time time time time	
ur 122 lestin 8 122 lestine 8 lestine 12 lestine 1	The clamping units shall be able to withstand the forces that can be applied through the connected conductors.	feeting his teeting his lesting his lestin	L. Les 1 118 12 Les 1 Les (118 12 Les (11
7.1.2	Mounting	Liz teer ing Liz teer ing Liz teer in Tiz teer ing Tiz toer ing Tiz teer ing	12 To To This P 75 To
Alg Learing Learing L Learing Alg Learing Alg	Terminal blocks shall be provided with means that allow them to be securely attached to a rail or a mounting surface.	ting Liz Leating Liz Leating Liz ing Liz Leating Liz Leating Liz light Liz Leating Liz Leating Liz Leat light Liz Leating Liz Leating Liz Leat Liz Leating Liz Leating Liz Leat	Lear this 12 Lear
R VIS TESTIO	Tests shall be made in accordance with 8.3.2.	See clause 8.3.2	5 7850 108 175 Presci
7.1.3	Clearances and creepage distances		12 10 11 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15
1621 148 172 1621 148 172 1621 148 172	For equipment tested according to 8.3.3.4 of this standard, minimum values are given in tables 13	See clause 8.4.2	11 (25) (25) (18) (15) (25) (18) (17) (25) (18) (17) (25) (18) (17) (25) (18) (17) (25) (18)



C120 - 12 1	to the to the top to be the top the	12 60 14 15 60 74 15 60	11/2 1/2 16 1/1/2 1/2
Clause	Requirement - Test	Result - Remark	Verdict
5 705 108 4	and 15 of IEC 60947-1.	The Mister Market Market Continue Mister Market Mar	705 118 175 705 111 5 705 1118 175 705 111
sering 112 testing	In case Uimp is not indicated, clearances and creepage distances in according with Annex H of IEC 60947-1.	Lesting No Lesting No Lesting Lighter to Lesting Lighter Lesti	115 1 25 1 108 115 15 15 15 15 15 15 15 15 15 15 15 15
Testing Th	Electrical requirements are given in 7.2.2	ing Its designed Its designed Its de	Legging 12 Legging
7.1.4	Terminal identification and marking	section 12 Learning 12 Learning 12	5 Testin 175 Peri
esting Nis is ting Nis isseli ting Nis isseli Nis Nis isseli	Terminals shall be clearly and permanently identified in accordance with IEC 60445 and Annex L of IEC 60947-1.	12 Leging 12 Leg	
Lesting NE	Terminals intended exclusively for the neutral	ing Its rescine his resting Its in	Learling Ing Learling
	conductor shall be identified by the letter "N", in	Sering 12 Lesting 12 Lesting 12	Testing 12 Testing
	accordance with IEC 60445.	Testing Nie Testing Nie Jesting	112 Lest 118 112 Les
tosting 175 tes	The protective earth terminal shall be identified in accordance with 7.1.10.3 of IEC 60947-1.	112 Les 1108 St. Les 1108 St. Les 1 112 Les 1108 St. Les 1108 St. Les 1 12 Les 1108 St. Les 1108 St. Les 1 12 Les 1108 St. Les 1108 St. Les 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	A terminal block shall have provision, or at least space, for identification marks or numbers for each clamping unit or terminal assembly related to the circuit of which it forms a part.	Lesting No	112 162 114 112 114 115 116 116 116 116 116 116 116 116 116
Legins N. Le	For the identification of the terminal blocks the colour combination green-yellow is not allowed.	12 Les 1 14 14 14 14 14 14 14 14 14 14 14 14 1	118 175 855 118 175 1856 1867 18
7.1.5	Resistance to abnormal heat and fire	Club No Leading No Leading Sign	Testing List Tepling
ting 112 testing 1	The insulation materials of terminal blocks shall not be adversely affected by abnormal heat and fire.	to test in 1/2 tes	100 1 12 1 100 100 100 100 100 100 100 1
Lesting Testing Testin	Compliance is checked by the needle flame test according to IEC 60695-11-5 as specified in 8.5 of this standard.	The last the state of the state	Les 1 100 12 Les 1 100 100 100 100 100 100 100 100 100
7.1.6	Rated cross-section and rated connecting capa	city of the rest in the rest in the	The Lest Up The Dies
Lezting Sizites	Terminal blocks shall be so designed that conductors of the rated cross-section and the rated connecting capacity,	on The Leading The	
TE TESTING T	Compliance is checked by the test described in 8.3.3.4.	See clause 8.3.3.4	Test in 15 Test in 15 Test
Lear IIIR I Le Lear IIIR I La Lear IIIR I La Lear IIIR I La Lear IIIR I La Lear IIIR III Lear	The verification of the rated cross-section may be performed by the special test according to 8.3.3.5.	The My Leg the My Leg the My Ly Leg 18 My Leg the My Ly Leg the My Ly Leg 18 My Leg the My Leg the My Ly Leg My Leg the My Leg the My Ly Leg th My Leg the My Ly Leg the My Ly Leg the My Ly Leg the My Ly Leg the	
7.2	Performance requirements	esting 112 lesting 122 lesting 122	162 - 111 12 1 P
7.2.1	Temperature rise	Lesting ILS Lesting ILS Lesting I	12 Legy 148 12 Peg
ins ITS Test	Terminal blocks shall be tested in accordance	12 Learling No Learling NZ Learly	12 10 10 10 175 175 175 175 175 175 175 175 175 175
	with 8.4.5. The temperature-rise of the	See clause 8.4.5	er 14 12 18 18 18 14 14 14 14 14 14 14 14 14 14 14 14 14
Leering The	terminals shall not exceed 45 K.	THE THE LESSING THE LESSING THE TEST	Leging 12 Leging
7.2.2	Dielectric properties	Lesting Niz Lesting Niz Lesting The	Fresh Me Per
ering 175 Testi ing 175 Test ing 175 Test	If the manufacturer has declared a value of the rated impulse withstand voltage (Uimp) (see 4.3.1.3 of IEC 60947-1), Subclause 7.2.3 and	See clause 8.4.3	Lip Les line Lip Les line Lips



162, 144 142 4	52 125 112 (62, 14) 112 762, 14) 142 262, 14) 142 452, 14) 142 452, 14) 142 452, 14)	1 1/2 (62) 148 1/2 (62) 248 1/2 (52) 148 1/2	Jes 118 17
Clause	Requirement - Test	Result - Remark	Verdict
112 100 100 1	7.2.3.1 of IEC 60947-1 applies	earling his hearling his best time his hear earling his hearling his hearling his hearl earling his hearling his hearling his hearling	4 175 Test
8.3.2	Attachment of the terminal block on its support	Le Les Lug ILS Les Tur TLS Les Tur TLS L 12 Les Lug ILS Les Tur TLS Les Tur TLS L Les Lug Lug Les Les Tur Les Les Tur Tur L	Stins P
me IIZ Lesting IIZ	The test shall be made on two clamping units at the centre terminal block out of five terminal blocks mounted as in normal use on the appropriate support according to the manufacturer's instructions.	Φ1mm 1N	P
cins (1) Test stins (1) Test sestins (1) Test Testins (1) Testins (1) Testins (1)	During the test, no terminal block shall work free from its rail or support, nor suffer any other damage.	The 12 testing 12 test	
8.3.3	Mechanical properties of clamping units	Lesting 1/2 Lesting 1/2 Lesting 1/2 Lest	TEPES
8.3.3.1	Test of mechanical strength of clamping units	To Testing Its resting Its resting Its resting Its res	er stime Pre
Lesting Lie Lesting Lie	Subclauses 8.2.4.1 and 8.2.4.2 of IEC 60947-1 apply	"	15 Lest 118 12
TS Testing 17	At the end of the test, the terminal blocks shall pass the voltage drop test according to 8.4.4	Carl Time I I To Long Time I I To Long Time I I To Long Carl Time I I To Long Time I I To Long Time I I To Long Time To Time I I To Long Time Time I I To Long Time I To Long T	175 Per
erium II. Ise Pium II. Isest Pium II. Isest Um II. Isest	before the test of mechanical strength of clamping units	Ud =0.82mV	Legeling Light
1521 LUB 172	the voltage drop shall not exceed 3,2 mV	18 12 Lez 118 12 Lez 118 12 Lez 118 12 Lez 118 1	15 Test P
The Lesting I	after the test of mechanical strength of clamping units	Ud =0.86mV	175 Test
erius 112 leer Tue 112 leer Tue 112 leeri	the voltage drop shall not exceed 150 % of the values measured before the test	The Lead time time the Lead time time the Lead time time the Lead time time time time time time time time	esting The Testing The
8.3.3.2	Testing for damage to and accidental loosening block (flexion test)	g of conductors of a terminal	12 105 108 1
us 112 learing R 112 learing R 112 learing L 12 learing	Subclauses 8.2.4.1 and 8.2.4.3 of IEC 60947-1 apply	Les (11) 12 Les (1	11 12 12 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
The rest in the re	The tightening torque shall be in accordance with Table 4 of IEC 60947-1 or alternatively in accordance with the higher torque value stated by the manufacturer.	ting his testing his testing his testing his testing his ting testing his his testing his testing his	
THE THE LESTING	conductor of the largest and smallest cross- sectional area (mm²)	2.5 and 1.0 mm ²	es 1100 112 Le 1108 112 Le 1108 112 Les
	number of conductor of the smallest cross sectional, number of conductor of the largest cross sectional	3/1	The Learing Inches
15 765 time 17 765	diameter of bushing hole (mm)	9.5mm	100 115 1050
	height between the equipment and the platen (mm)	279mm	Lege The TL2 Section 1/12 Section 1/12 Section 1/12 Section 1/12
	mass at the conductor(s) (kg)	0.05kg	Lesting I
ue 112 testine 8 112 testine 12 testine 12 testine 12 testine 112	135 continuous revolutions: the conductor shall neither slip out of the terminal nor break near the clamping unit	Leating his leating his leating his lea- leating his leating his leating his lea- ting his leating his leating his leating ting his leating his leating his leating ling his leating his leating his leating	P
8.3.3.3	Pull-out test	The resting the desting the lesting his	Costing P
Car 108 112 16	Subclause 8.2.4.4 of IEC 60947-1.	\$ 15 75 100 110 12 75 100 175 75 100 175 100 175	5 (8 st. 108 17)



Clause	Requirement - Test	Result - Remark	Verdict
2 462 108 172	2	24 42 462 148 1/2 462 148 1/2 46	521 118 12 152 118 2 148 12 152 148
8.2.4.4.1	Round copper conductors	Cesting Lie Learing Lie Learing Lie	Testin 175 Pest
THE TEST	force (N)	50 N	12 100 Files 1 1 10 10
Legins 172	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit	11	The section of the se
8.2.4.4.2	Flat copper conductors	ting 112 testing 112 testing 112 te	estina Me Te Te Nina
175 Testing 18 175 Testing 18 175 Testing 18 175 Testing 175 Testi	A suitable length of conductor shall be secured in the terminal and the pulling force given in Table 6 applied without jerks for 1 min in a direction opposite to that of the insertion of the conductor.	1 12 Losy 1 mg 112 Losy 1 mg 112 Losy 1 mg 12 Losy 1 mg 1	
Testing ITS	During the test, the conductor shall neither slip out of the terminal nor break near the clamping unit.	er 144 122 Learing	esting The Leaving
8.3.3.4	Verification of rated cross-section and rated co	nnecting capacity	12 1621 W 12 PISS
esting The Lessing Line Lessing	The test shall be carried out on each clamping unit of one terminal block.	The Leaf time his Leaf time hi	P
The Lost the The Last the The Last the The	Theoretical diameter of the largest conductor is given in Table 7a of IEC 60947-1.	The No Leading No Leading No. 1. Lea	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8.3.3.5	Verification of rated cross-section (special test	with gauges)	12 Lear 148 12 Dieg
148 1/2 LER	Subclause 8.2.4.5 of IEC 60947-1 applies	Lesting The Lesting Me Lesting	Le de rius Be
Seeting 175 TE	The test shall be carried out on each clamping unit of one terminal block.	## 12 Les (14) 12	The Les Lines of the Land of t
8.4.2	Verification of clearances and creepage distance	Ces 11/2 16 26 11/4 1/2 1/6 1/10 1/2	Testing It's Peri
8.4.2.1	General To the time to the time to the time to the time to	Lesting 12 Lesting 12 Lesting 1	10 TO ST 11 P TO
12 Lesting	The verification is made between two adjacent terminal blocks and between a terminal block and the metal support to which the terminal blocks are attached.	1. 11	tes in the testing
8.4.2.2	Clearances	Legitur II. Legitur II. Legitur II.	Post
ine 175 rest	The measured values of clearances shall be higher than the values given in Table 13 of IEC 60947-1 for case B – homogeneous field (see 7.2.3.3 of IEC 60947-1)	(see appended table)	
8.4.2.3	Creepage distances	estim No lestim No lestim No	Leg 148 172 Leg 1
cerius III leerius II lee	The measured creepage distances shall be not less than the values given in table 15 of IEC 60947-1	(see appended table)	115
8.4.3	Dielectric tests	in the leading the leading the leading	ting 15 testing
The state of the s	a) If the manufacturer has declared a value for the rated impulse withstand voltage Uimp, the impulse withstand voltage test shall be made in accordance with 8.3.3.4.1, item 2), of IEC 60947-1, except item 2) c) which does not apply.	State See Ting 12 Leading 12 Lead	
Leginii 12	b) The power-frequency withstand verification of solid insulation shall be made in accordance with 8.3.3.4.1, item 3), of IEC 60947-1. The value of the test voltage shall be as stated in Table 12A of IEC 60947-1 (see 8.3.3.4.1, item 3) b) i), of IEC 60947-1).	(see appended table)	ting Lize Leading Li Nize Leading Lize Nize Leading Lize Lize Leading Lize Leading Lize Leading Lize Leading Lize Leading Lize Leading Lize Leading Lize Ling Lize Leading



Clause	Requirement - Test	Result - Remark	Verdict
762 148 175		5108 175 105 108 175 105 108 175 105 175 175 175 175 175 175 175 175 175 17	12 12 12 12 12 12 12 12 12 12 12 12 12 1
esting 175 to	Each test shall be carried out on five adjacent terminal blocks wired and installed on a metal support under conditions a), b) and c) indicated in 8.4.2.1.	Lip Lest ton Alp Lest ton Alp Lest to Lip Lest time Alp Lest ton Alp Lest time Lest time Alp Lest tone Alp Lest time Lest time Alp Lest time Alp Lest time Lest time Alp Lest time Alp Lest time Alp Entre Alpha Lip Lest time Alpha Lest time Alpha Entre Alpha Lip Lest time Alpha Lip Lest time Alpha Entre Lest time Alpha Lip Lip Lest time Alpha Lip	
ng Lightest II. Lightest Institute II. Lightest Institute II. Learning III. Learning I	The test voltage shall be applied first between the adjacent terminal blocks and then between all terminal blocks connected together and the support to which the terminal blocks are attached.	Legitur, Ugitagitur, Ugitagitur, Ugitagitur, U Legitur, Ugitagitur, Ugitagitur	
3.4.4	Verification of the voltage drop	The Leggins Tie Leggins Tie Leggins	ET TEST SET INS PER
Esting The	a) before and after the test of mechanical strength of clamping units (see 8.3.3.1);		er ing 12 testing er ing 12 testing ring 12 testing 11
15 7851.08 15 7851.08 15 7851.01	b) before and after the temperature-rise test (see 8.4.5);	Lez Tim 112 Lez Tim 12 Lez Tim 1 Lez Tim 125 Lez Tim 125 Lez Tim 125 ez Tim 125 Lez Tim 112 Lez Tim 125 ez Tim 125 Lez Tim 112 Lez Tim 125	15 162 1118 115 162 11 2 163 1118 115 163 11 2 163 1118 115 163 11
ering The Legisting The Legist	c) before and after the short-time withstand current test (see 8.4.6);	A LE LES LING TO LES TON THE LES TON THE LES LING TO LES TON THE LESS TON THE LES THURST LES TON TO LESS TON THE LESS TON THE LESS TON TO LESS TON	112 Lear 11 12 1
Steeling Ste	d) before, during and after the ageing test (see 8.4.7).	" (14) 12 Lea (14) 12 Le	
112 15 152 1 110 112 1521 112 1521 112 1521	The verification is made as specified in 8.3.3.1, 8.4.5, 8.4.6 and 8.4.7.	2	15 10 Till 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15
Lesting 112 Lesting 112	Before the tests according to a), b), c) and d) above, the voltage drop shall not exceed 3,2 mV,	m. M. Leading M. Leading M. Lea y M. Leading M. Leading M. Leading M. Leading M. Leading M. Leading M. Leading M. Leading M. Leading M. Leading M. Leading M. Leading	Cing I Lesting
The Alexander of the Al	After the tests according to a), b) and c), the voltage drop shall not exceed 150 % of the values measured before the test.	Leafing 112 Leafin	12 40 100 12 400 100 100 100 100 100 100 100 100 100
	During and after the test according to d), the voltage drop measured shall not exceed the values specified in 8.4.7.	11m	STAR TO TOST INS
3.4.5	Temperature-rise test	sering 1/2 lessing 1/2 lessing 1/2	1851 11 175 Perch
E TE TESTIN	- ambient temperature 20±5 $^{\circ}\mathrm{C}$:	22℃	12 162 128 12 <u>8</u> 16 12 162 128 12 <u>8</u> 16 3 162 128 129 129
Jug 1/2 162	- test current(A):	80 A	08 12 62 108 12
Legring 122	- Rated cross-section (mm²) :	2.5mm ² /AWG	THE TY TESTING
on 112 certical 12 testina 12 tes	The temperature-rise of any part of the centrally located terminal block shall not exceed the limit given in 7.2.1	29.8K	est time 175 reserving 185 reserving 175 Preserving 175 reserving 175 Preserving 175 reserving 175 reserving
1 14 1 12 162	before the temperature-rise test	Ud =0.85mV	The Telephone Pie
Lesting 112	the voltage drop shall not exceed 3,2 mV	UR TO LEASTUR TO LEASTUR TO LEASTUR TO LEASTUR	The The Leaf but
Lesting IL	after the temperature-rise test	Ud =0.88V	Learing Its Lobin
un Vie Learing	the voltage drop shall not exceed 150 % of the temperature-rise test	Secretary Lips Location 1 to Location Lips Lips Lips Lips Lips Lips Lips Lips	12 60 11 10 12 15 15 15 15 15 15 15 15 15 15 15 15 15
3.4.6	Short-time withstand current test	The Leading The Leading The Leading	175 (esting P 15
Testing ITS Testing ITS Testing ITS	The test is performed on one terminal block installed according to the manufacturer's instructions.	esting 122 Lesting 122 Cesting 125 esting 12	1
ing Tip Learn	the value and the duration of the test current shall be in accordance with 7.2.3.	300A 1S	1 12 Les 148 128 128 128 128 128 128 128 128 128 12
595 THE 175 1	At the end of the test, continuity shall exist on the	IN THE LOSITION THE LESELINE THE LESEL	30% 175 Test P. 1



	EN 60947-7-1		
Clause	Requirement - Test	Result - Remark	Verdict
The state of the s	test sample assembly and the terminal blocks shall not show any cracking, breakage or other critical damage.	12 test ing 112 test ing 122 te	2 L & 102 122 Les Ting 122 Les ee, 108 122 Les et 108 122 Les et 108 122 Les Ting 108 122 Les Ting
STEWN THE LE	before the short-time withstand current test	Ud =0.86mV	The Tree In Part
Testing ITS	the voltage drop shall not exceed 3,2 mV	THE TIS LESTING THE LESTING THE LESS IN	ns 1 15 Tes Pins
12 1021 148	after the short-time withstand current test	Ud =0.90V	P.
1108 125 LEST 108 112 LEST 108	the voltage drop shall not exceed 150 % of the short-time withstand current test	12	Testing P
8.4.7	Ageing test (for screwless-type terminal block	s only)	17 Te 1 N 17
The Learning I	The terminal blocks are submitted to 192 temperature cycles as follows.	screw-type terminal blocks	ing 12 Lest ing
ezine 112 tezine 2010 112 tezi 108 112 tezine 112 tezine	After this test, a visual inspection shall show no changes impairing further use such as cracks, deformations or the like.	The Leading Size seating Size s	The rest ing The
Lesting 12	before the ageing test	We The Leading The Leading The Leading	TE TEST NIE
The Leasting I	the voltage drop shall not exceed 3,2 mV	Certing 1/2 Learting 1/2 Learti	N
NE TESTIN	after the ageing test	Leading No Leading No Leading No.	N
esting 122 Les	the voltage drop shall not exceed 150 % of the ageing test	m Le Les ling Me	The restrict N
8.5	Verification of thermal characteristics	ed 148 12 18 18 14 18 18 18 18 18 18 18 18 18 18 18 18 18	115 Te Pins
us Tie Learing	The thermal characteristics are checked by the needle flame test.	Leging The	11 Pier
8.6	Verification of EMC characteristics	The learning The Learning The Learning The	is resting Nis
8.6.1	Immunity and the rest in the r	108 122 Lesting 122 Lesting 122 Lesting	TEST NOT
us 1.12 teering 1.12 teering 1.12 teering 1.2 teering 1. 12 teering 1.1	Terminal blocks within the scope of this standard are not sensitive to electromagnetic disturbances and therefore no immunity tests are necessary.	Leging I.p. Leging	Legy (10% 1.12, Legy Service 1.12, Were Service 1.12, Were Superior 1.22, Legy (10%)
8.6.2	Emission	1/2 Les 100 1/2 Les 100 1/2 Les 108 1/2 Les 108 1/2 1/2 Les 100 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	E LEGIUE NE
12 Testing 12 Lesting	Terminal blocks within the scope of this standard do not generate electromagnetic disturbances and therefore no emission tests are necessary.	at the No Lead the No Lead the No Lead to the land of the Local the No Lead th	N



EN 60947-7-1					
Clause	Requirement - Test	Result - Remark	Verdict		

8.4.2.2 TABLE: Clearance	U imp	Required cl	1/2 152 1110 C 162 1110 1/2
Clearance (cl) at/of/between:	(V)	(mm)	(mm)
Two adjacent terminal blocks	8000	15 10 51 10 13 10 50 10 15 10 15	14.2
Terminal block and the metal support	8000	1 12 16 2 1 1 3 1 7 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13.6

8.4.2.3	TABLE: creepage distance	12 Lear 148	The Leading The L	1021 118 112 162	THE THE LESSING IL	16 VIII P1
creepag	ge distance (cr) at/of/between:	U i (V)	Material group	Pollution degree	Required cr (mm)	cr (mm)
Two adjac	cent terminal blocks	800	Illa	ne The Tell time I	12.5	15.3
Terminal block and the metal support		800	Illa	3,000	12.5	14.8

8.4.3 TABLE: Dielectric tests	RITH THE LESSING THE LESSING THE LESSING	ing The Leading Land Leading
Test voltage applied between:	Voltage (V)	Breakdown (Yes/No)
Two adjacent terminal blocks	2000	No still like the
Terminal block and the metal support	2000	No restrict No



ATTACHMENTS: REAL PHOTOS



Photo 1

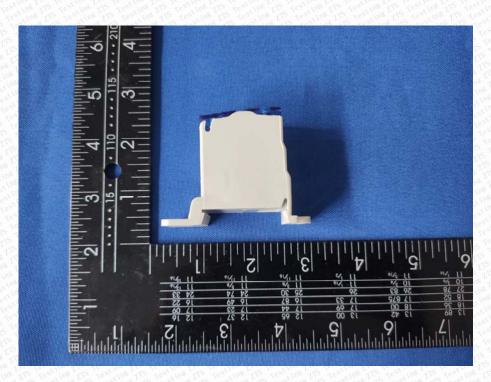


Photo 2



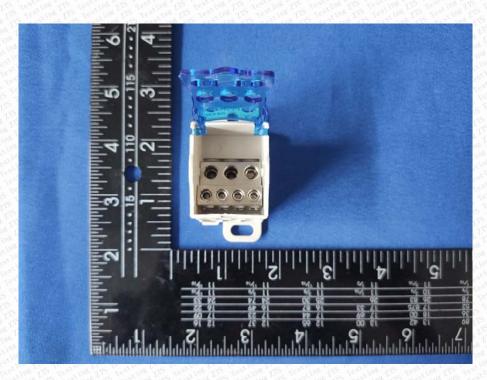


Photo 3

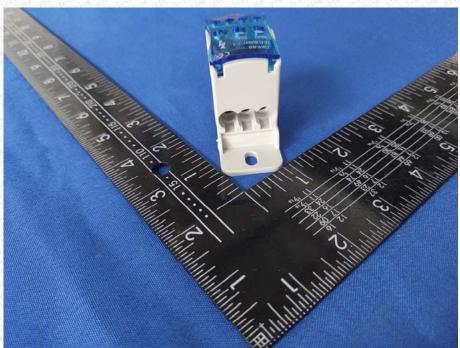


Photo 4



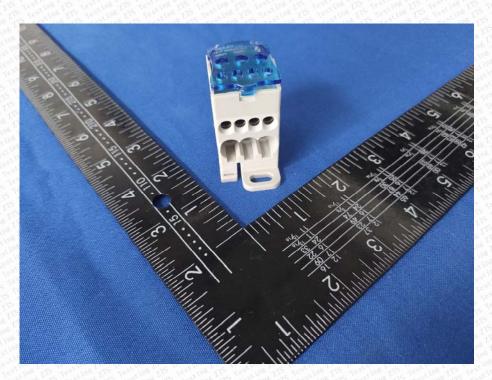


Photo 5



Photo 6

End of the report