CERTIFICATE

Issued to:
Applicant:
WAGO GmbH & Co. KG
Hansastrasse 27
32423 Minden/westfalen, Germany

Licensee:
WAGO GmbH & Co. KG
Hansastrasse 27
32423 Minden/westfalen, Germany

Product	:	Terminal blocks for copper conductors
Trade name(s)	:	WAGO
Type(s)/model(s)	:	TOPJOB S 2006

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:
- a type test according to the standard(s) EN 60947-7-1:2009, EN 60947-7-2:2009 and EN 60947-7-3:2009
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 900220

DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on 1 June 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 71-122840 REV.1

DEKRA Certification B.V.

B.T.M. Holtus
Managing Director

MT Tonsi
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE DUTCH ACCREDITATION COUNCIL

PRODUCTS RvA C 001

KEMA KEUR

SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product	:	Terminal blocks for copper conductors
Trade name(s)	:	WAGO
Type(s)/model(s)	:	TOPJOB S 2006
Material	:	thermoplastic material
Method of mounting	:	for mounting on top hat rail 35 mm
Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Conventional free air thermal current	:	41 A (6 mm²) 57 A (10 mm²)
Rated insulation voltage	:	800 V (pollution degree 3) 1000 Vac / 1500 Vdc (pollution degree 2)
Rated impulse withstand voltage	:	8 kV
Type	:	2006 with suffixes -1201, -1202, -1203, -1204, -1205, -1206, -1208, -1209
Description	:	2 conductor through terminal block, with screwless-type clamping units, 1-pole
Type	:	2006-1207
Description	:	2 conductor earth terminal block, with screwless-type clamping units, 1-pole
Type	:	2006 with suffixes -1301, -1302, -1303, 1304, -1305, -1306, -1308, -1309
Description	:	3 conductor through terminal block, with screwless-type clamping units, 1-pole
Type	:	2006-1307
Description	:	3 conductor earth terminal block, with screwless-type clamping units, 1-pole
Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Conventional free air thermal current	:	41 A (6 mm²) 51 A (10 mm²)
Rated insulation voltage	:	250 V (pollution degree 3)
Rated impulse withstand voltage	:	4 kV
Type	:	2006-7114
Description	:	1 conductor N-disconnect terminal block, with screwless clamping units and 1 connection for busbar (10 x 3 mm), 1-pole
Type	:	2006-7111
Description	:	1 conductor power distribution disconnect terminal, with screwless clamping units and 1 connection for busbar (10 x 3 mm), 1-pole

Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Conventional free air thermal current	:	30 A (6 mm²) 30 A (10 mm²)
Rated insulation voltage	:	800 V (pollution degree 3)
Rated impulse withstand voltage	:	8 kV

Type	:	2006 with suffixes -1601, -1602, 1603, -1604
Description	:	2 conductor through terminal block (permanently closed disconnect part), with screwless type clamping units, 1-pole

Type	:	2006 with suffixes -1661, -1662, -1663, -1664
Description	:	2 conductor carrier terminal block, with screwless-type clamping units, 1-pole

Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Conventional free air thermal current	:	30 A (6 mm²) 30 A (10 mm²)
Rated insulation voltage	:	800 V (pollution degree 3)
Rated impulse withstand voltage	:	8 kV

Type	:	2006 with suffixes -1671, -1672, -1673, -1674, -1675
Description	:	2 conductor disconnect terminal block, with screwless type clamping units, 1-pole

Type	:	optional suffixes for disconnect terminal blocks .../400-0000
Description	:	disconnect knife rotated by 180°

Type	:	.../401-0000
Description	:	with mechanical locking element

Type	:	2006-... with suffixes -1671, -1675 with additional suffixes /1000-848 provided with LED 24 V /1000-849 provided with LED 48 V /1000-850 provided with neon light 120 V /1000-851 provided with neon light 230 V
Description	:	ground conductor disconnect terminal block, with screwless type clamping units, 2-poles

Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Conventional free air thermal current	:	25 A (6 mm²) 25 A (10 mm²)
Rated insulation voltage	:	500 V (pollution degree 3)
Rated impulse withstand voltage	:	8 kV (adjacent terminal block) 4 kV (internal)

Type	:	2006 with suffixes -1681, -1682, -1683, -1684
Description	:	2 conductor fuse terminal block for mini-automotive blade style fuses, with screwless type clamping units, 1-pole

Type	:	2006-1681 with suffixes /1000-429 with blown fuse indication 12 V, anode of LED on the right side /1000-449 with blown fuse indication 12 V, anode of LED on the left side /1000-413 with blown fuse indication 24 V, anode of LED on the right side /1000-434 with blown fuse indication 24 V, anode of LED on the left side /1000-414 with blown fuse indication 48 V, anode of LED on the right side /1000-435 with blown fuse indication 48 V, anode of LED on the left side
Description	:	2 conductor fuse terminal block for mini-automotive blade style fuses, with screwless type clamping units, 1-pole
Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Conventional free air thermal current	:	10 A (6 mm²) 10 A (10 mm²)
Rated insulation voltage	:	800 V (pollution degree 3)
Rated impulse withstand voltage	:	8 kV (adjacent terminal block) 6 kV (internal)
Type	:	2006 with suffixes -1611, -1612 ,-1613, -1614, -1615 with optional suffixes / 1000-541; 12-30 V / 1000-542; 30-65 V / 1000-836; 230 V / 1000-859; 380-500 V / 1000-867; 120 V
Description	:	2 conductor fuse disconnect terminal block with pivoting fuseholder, with screwless type clamping units, fuse size 5x20 mm, 1-pole exclusive short circuit protection: separate arrangement: PvK 2,5W compound arrangement: PvK 2,5W overload and short circuit protection: separate arrangement: Pv 2,5 W compound arrangement: Pv 1,6 W
Type	:	2006 with suffixes -1621, -1622, -1623, 1624 with optional suffixes / 1000-541; 12-30 V / 1000-542; 30-65 V / 1000-836; 230 V / 1000-859; 380-500 V / 1000-867; 120 V

Description	:	2 conductor fuse disconnect terminal block with pivoting fuseholder, with screwless type terminals, fuse size 5x30 mm, 1-pole exclusive short circuit protection: separate arrangement: PvK 2,5W compound arrangement: PvK 2,5W overload and short circuit protection: separate arrangement: Pv 2,5 W compound arrangement: Pv 1,6 W
Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Current	:	10 A (6 mm²) 10 A (10 mm²)
Rated insulation voltage	:	800 V (pollution degree 3)
Fuse size	:	5x30 mm
Type	:	2006 with suffixes -1631, -1632, -1633, -1634 additional suffixes / 0099-0000 / 1000-541; 12-30 V / 1000-542; 30-65 V / 1000-836; 230 V / 1000-859; 380-500 V / 1000-867; 120 V / 1099-541; 12-30 V / 1099-542; 30-65 V / 1099-836; 230 V / 1099-859; 380-500 V / 1099-867; 120 V
Description	:	2 conductor fuse disconnect terminal block with pivoting fuseholder, with screwless type clamping units, fuse size 1/4 x 1 1/4, 1 pole exclusive short circuit protection: separate arrangement: PvK 2,5 W compound arregement: PvK 2,5 W overload and short circuit protection separate arrangement: Pv 2,5 W compound arrangement: Pv 1,6 W
Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Current	:	10 A (6 mm²)
Rated insulation voltage	:	800 V (pollution degree 3)
Fuse size	:	1/4 x 1 1/4

Type	:	2006-911 with suffixes /1000-541 (12 V - 30 V /1000-542 (30 V - 65 V) /1000-867 (120 V) /1000-836 (230 V)
Description	:	fuse plug with pull tab suffixes provided with indicator light
Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Current	:	10 A (6 mm²) 10 A (10 mm²)
Rated insulation voltage	:	800 V (pollution degree 3)
Fuse size	:	5x30 mm
Type	:	2006-921 with suffixes /1000-541 (12 V - 30 V) /1000-542 (30 V - 65 V) /1000-867 (120 V) /1000-836 (230 V) /1000-859 (380 V - 500 V)
Description	:	fuse plug with pull tab provided with indicator light
Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Conventional free air thermal current	:	30 A (6 mm²) 30 A (10 mm²)
Rated insulation voltage	:	1000 Vac / 1500 Vdc (pollution degree 3)
Rated impulse withstand voltage	:	12 kV
Type	:	2006 with suffixes -8601, -8604
Description	:	2 conductor through terminal block, with screwless type clamping units, provided with disconnect part, which cannot be operated
Type	:	2006 with suffixes -8664, -8661
Description	:	2 conductor carrier terminal block, with screwless type clamping units, 1 pole
Type	:	2006 with suffixes -8671, -8674
Description	:	2 conductor disconnect terminal block, with screwless type clamping units, 1 pole
Rated cross section	:	6 mm² / 10 mm² rigid and flexible (supply side) 1,5 mm² / 2,5 mm² rigid and flexible (load side)
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible (supply side) 0,25 mm² - 2,5 mm² rigid and flexible (load side)
Conventional free air thermal current	:	41 A (6 mm²) / 57 A (10 mm²) (supply side) 17,5 A (1,5 mm²) / 24 A (2,5 mm²) (load side)
Rated insulation voltage	:	800 V (pollution degree 3)
Rated impulse withstand voltage	:	8 kV
Type	:	2006 with suffixes -8031, -8031/0000-0053, -8031/0000-xxxx, -8032, -8033, -8034, -8035, -8036, -8039
Description	:	distribution terminal block, with screwless type clamping units, supply side one clamping unit, load side six clamping units

TESTS

Test requirements
EN 60947-7-1:2009
EN 60947-7-2:2009
EN 60947-7-3:2009

Test result
The test results are laid down in DEKRA test file 226261300.

Additional information
Article numbers may be followed by optional suffix numbers e.g. 2006-xxxx/xxxx-xxxx/xxxx-xxxx (up to 40 digits) where "x" may be any number (including characters) to represent customer numbers, printing variants, colour variants and other mechanical variations, given for a specific end-use purpose and not affecting the electrical properties.

This certificate replaces certificate No. 71-122840 which we hereby declare invalid.

Conclusion
The examination proved that all requirements were met.

Factory locations
WAGO GmbH & Co. KG
Hansastrasse 27
32423 Minden/westfalen, Germany

WAGO Contact S.A.
Route de l'Industrie 19 CP 168
1564 Domdidier, Switzerland

WAGO Kontakttechnik GmbH &Co. KG Werk Sondershausen
Waldstrasse 1
99706 Sondershausen, Germany

Wago Electronic (Tianjin) Co. Ltd.
No. 5 Quanhui Road Wu Qing Development Area
301700 Tianjin, China

Wago Elwag sp.z.o.o.
Ul. Piekna 58 a
50-506 Wroclaw, Poland

Wago Elwag
Innowacyjna 2
55-330 Wroblowice, Poland

WAGO Kontakttechnik GmbH & Co. KG
Cammer Str. 17
32423 Minden, Germany

Wago Private Limited
Block No. 94 National Highway 8Village Vadsala-Varnama
391243 Vadodara, India

ETICS OD ECS 040-1 January 2019	Responsible CB DEKRA

TEST REPORT SUMMARY

Report Number ..... :	**2262613.50/A1**
Date of issue ..... :	**2022-05-20**
Tested by (name, function, signature):	**Bart Veenvliet** **(Technician Industrial Safety)**
Witnessed by (name, function, signature):	
Approved by (name, function, signature):	
Supervised by (name, function, signature):	**F. Fu** **(Project Manager Industrial Safety)**

Testing Laboratory ..... :	**DEKRA Certification B.V.**
Address ..... :	**Meander 1051, 6825 MJ Arnhem, The Netherlands**
Testing procedure ..... :	☐ ENEC ☒ CCA NTR ☐ ENEC based on IECEE CBTC with number: …….
Customer Testing Procedure..... :	☐ TMP/CTF Stage 1 ☐ WMT/CTF Stage 2 ☐ SMT/CTF Stage 3
Applicant ..... :	**WAGO GmbH & Co. KG**
Address ..... :	**Hansastrasse 27, 32423 Minden/Westfalen, Germany**
Manufacturer ..... :	**WAGO GmbH & Co. KG**
Address ..... :	**Hansastrasse 27, 32423 Minden/Westfalen, Germany**
Product ..... :	**Terminal block for copper conductors**
Model/Type reference ..... :	**TOPJOB S 2006**
Trademark ..... :	WAGO
Ratings ..... :	**Max 10 mm², max 57 A, max. 1000 Vac / 1500 Vdc, max. 12 kV**
Certification Scheme ..... :	☐ ENEC ☒ CCA ☐ Other: _____
Standard(s) ..... :	**EN 60947-7-1: 2009, in conjunction with EN 60947-1: 2007 + A1:2012 + A2:2014**

☒ The text of the a.m. European Standard was approved by CENELEC is equivalent with the corresponding IEC Publication.

☐ The text of the a.m. European Standard was approved by CENELEC with agreed common modifications and is not equivalent with the corresponding IEC Publication. An EU Deviation Addendum has to be issued.

This EN test report consists of the following parts:

☒ IEC Test Report Number..... :	**2262613.50/A1**
☐ EU Deviation Addendum..... :	

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This ECS document together with the test report is only valid if signed by an approved ENEC or CCA Testing Laboratory and accompanied by the associated ENEC Licence or CCA Notification of Test Results, issued by a Certification Body member of ECS.

Test Report issued under the responsibility of:

DEKRA

TEST REPORT
IEC 60947-7-1
Low-voltage switchgear and controlgear
Part 7: Ancillary equipment
Section One: Terminal blocks for copper conductors

Report Number..... :	**2262613.50/A1**
Date of issue ..... :	**2022-05-20**
Total number of pages..... :	**71**
Name of Testing Laboratory preparing the Report..... :	**DEKRA Certification B.V.** **Meander 1051, 6825 MJ Arnhem, The Netherlands**
Applicant's name ..... :	**WAGO GmbH & Co. KG**
Address ..... :	**Hansastrasse 27, 32423 Minden/Westfalen, Germany**
Test specification:	
Standard..... :	IEC 60947-7-1:2009 (Third Edition) in conjunction with IEC 60947-1 (Fifth Edition) + A1:2012 + A2:2014
Test procedure..... :	CB Scheme
Non-standard test method..... :	N/A
Test Report Form No. ..... :	IEC60947_7_1B
Test Report Form(s) Originator.... :	DEKRA Certification B.V.
Master TRF ..... :	Dated 2015-10

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

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 CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description..... :	**terminal blocks for copper conductors**
Trade Mark..... :	
Manufacturer..... :	**WAGO GmbH & Co. KG**
Model/Type reference..... :	**TOPJOB S 2006**
Ratings..... :	**Max 10 mm², max 57 A, max. 1000 Vac / 1500 Vdc, max. 12 kV**

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):			
☒	**CB Testing Laboratory:**	**DEKRA Certification B.V.**	
Testing location/ address.....:		**Meander 1051, 6825 MJ Arnhem, The Netherlands**	
☐	**Associated CB Testing Laboratory:**		
Testing location/ address.....:			
Tested by (name, function, signature).....:		**B. Veenvliet (Technician Industrial Safety)**	
Approved by (name, function, signature)...:		**F. Fu (Project Manager Industrial Safety)**	
☐	**Testing procedure: CTF Stage 1:**		
Testing location/ address.....:			
Tested by (name, function, signature).....:			
Approved by (name, function, signature)...:			
☐	**Testing procedure: CTF Stage 2:**		
Testing location/ address.....:			
Tested by (name + signature) .....:			
Witnessed by (name, function, signature)..:			
Approved by (name, function, signature)...:			
☐	**Testing procedure: CTF Stage 3:**		
☐	**Testing procedure: CTF Stage 4:**		
Testing location/ address.....:			
Tested by (name, function, signature).....:			
Witnessed by (name, function, signature)..:			
Approved by (name, function, signature)...:			
Supervised by (name, function, signature) :			

List of Attachments (including a total number of pages in each attachment): N/A

Summary of testing:

Tests performed (name of test and test clause):	**Testing location:**
Project 2160584.70 Through terminal blocks: Complete examination All tests are carried out on 2006-1301 unless otherwise stated. Project 2166989.50 This test report replaces Test Report 2160854.70 issued on 6 March 2013, due to the fact that types are added. Tests were done at type 2006-1601. Project 2173612.50 This Test Report replaces test Report 2166989.50 issued on 5 February 2104, due to the fact that types are added. Tests were done at type 2006-8601, 2006-8671. Project 2221172.50 This Test Report replaces test Report 2173612.50 issued on 15 October 2014, due to the fact that types are added, with other colours. No additional tests were necessary. Project 2256631.52 This Test report replaces Test Report 2221172.50 issued on 2017-11-28, due to the fact that the rated voltage of 1000 Vac / 1500 Vdc is added. The following tests are carried out on 2006-1306: - Clauses 8.4.2 - Clause 8.4.3 Further are added additional factory locations.	**DEKRA Certification B.V.** **Meander 1051, 6825 MJ Arnhem** **The Netherlands** **DEKRA Certification B.V.**

Project 2262613.50 This Test report replaces Test Report 2256631.52 issued on 2021-07-06, due to the fact that types 2006-80xx are added. supply side one time 6 mm²/10 mm², 41 A/57 A identical to 2006-12xx and 2006-13xx (this TRF) load side 6 times 1,5 mm²/2,5 mm², 17,5 A/24 A identical to 2001-12xx and 2001-13xx, see Test Report 2160584.58 issued on 2013-3-6 The tests which are carried out on 2006-8033 are laid down in the table on page 9. All other test results for TOPJOB S 2006 series terminals are taken from Test Report 2256631.52. Further is added additional factory location. Project 2262613.50/A1 This Test report replaces Test Report 2262613.50 issued on 2022-03-24, due to the fact of a type error in type 2006-8031/0000-0053, 2006-8031/0000-xxxx	**Meander 1051, 6825 MJ Arnhem** **The Netherlands**
Summary of compliance with National Differences (List of countries addressed): N/A ☒ **The product fulfils the requirements of EN 60947-7-1: 2009.**	

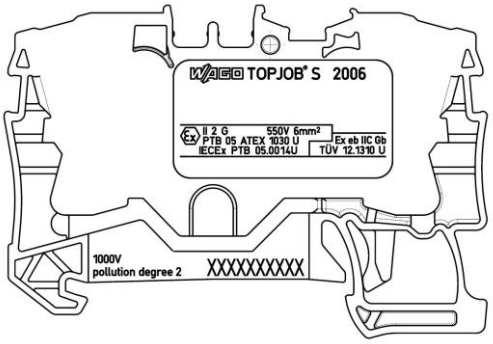
Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Example:

WAGO TOP JOB S 2006

1000 V 6 mm² 30 A



Test item particulars ..... :	
Classification of installation and use ..... :	
Supply Connection ..... :	
Particulars: test item vs. test requirements	
- method of fixing ..... :	**mounting on top hat rail 35 mm**
- number of poles ..... :	**1 pole**
- type of clamping units ..... :	**screwless-type terminal**
- ability to receive conductors ..... :	**unprepared conductors, flexible or rigid**
- number of terminals on terminal assembly ..... :	**2, 3 or 7**
- rated cross-section (mm²) ..... :	**Type 2006-803x:** **Supply 6 mm² or 10 mm²** **Load 1,5 mm² or 2,5 mm²** **Remaining types:** **6 mm² or 10 mm²**
- rated connecting capacity (mm²) ..... :	**0,5 mm² - 10 mm² rigid and flexible**
- rated insulation voltage (U_i) ..... :	**250 V – 1000 Vac / 1500 Vdc (see page 65 - 68)**
- rated impulse withstand voltage (U_{imp}) ..... :	**4 kV / 8 kV / 12 kV**
- Conventional free air thermal current (I_{th}) ..... :	**41 A (6 mm²)** **57 A (10 mm²)** **30 A (6 mm² for disconnect terminal blocks)** **Type 2006-803x:** **Supply side 41 A (6 mm²) / 57 A (10 mm²)** **Load side 17,5 A (1,5 mm²) / 24 A (2,5 m²)**
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 ..... :	2014-08 / 2021-05 / 2022-1
Date (s) of performance of tests ..... :	2014-08 / 2021-05 / 2022-2
General remarks:	

"(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.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided..... :	☒ **Yes** ☐ **Not applicable**
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) ..... :	**Wago Elwag sp.z.o.o.** **ul. Piekna 58 a** **50-506, Wroclaw, Poland** **Wago Elwag** **Innowacyjna 2** **55-330 Wroblowice, Poland** **WAGO Private Limited** **Block No. 94, National Highway-8** **Village Vadsala – Varnama, Vadodara, Gujarat-391243, India** **Wago Electronic (Tianjin) Co. Ltd.** **No. 5 Quanhui Road** **Wu Qing Development Area** **301700 Tianjin, China** **WAGO GmbH & Co. KG** **Hansastrasse 27, 32423 Minden/Westfalen** **Germany** **WAGO Kontakttechnik GmbH & Co. KG, Werk Sondershausen** **Waldstrasse 1, 99706, Sondershausen** **Germany** **WAGO Contact S.A.** **Route de l'Industrie 19, CP 168, 1564, Domdidier, Switzerland** **WAGO Kontakttechnik GmbH & Co. KG** **Cammer Str. 17,** **32423 Minden** **Germany**

General product information:

See pages 65 to 71

Clauses	description	Type / configuration [2]			
		2006-8033 Supply 6 mm² Load side 1.5 mm²	2006-8033 Supply 6 mm² Load side 2.5 mm²	2006-8033 Supply 10 mm² Load side 1.5 mm²	2006-8033 Supply 10 mm² Load side 2,5 mm²
5.1	Marking	X			
7	Constructional requirements				
8.3.2	Attachment of the terminal block on its support				X
8.3.3.1	Mechanical strength of clamping units	X			X
8.3.3.2	Testing for damage to and accidental loosening of conductors of a terminal block	X			X
8.3.3.3	Pull-out test	X			X
8.3.3.4	Verification of rated cross section and rated connecting capacity	X			X
8.4.2	Verification of clearances and creepage distances				X
8.4.3	Dielectric tests				X
8.4.5	Temperature-rise test	X	X	X	X
8.4.6	Short-time withstand current test	X			X
8.4.7	Ageing test			X [1]	X [1]
8.5	Verification of thermal characteristics is checked by the needle flame test				
8.6	Verification of EMC characteristics				

Notes

1 load side tested only, supply side is covered by 2006-12xx and 2006-13xx

2 load side covered by this report
supply side covered by 2001-12xx and 2001-13xx as laid down in Test Report 2160584.58 issued on 2013-3-6

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict

5.1	**MARKING**		
	Terminal block shall be marked with:		
	- manufacturer's name or trademark	WAGO	**P**
	- type designation	**TOPJOB S 2006**	**P**
5.2	The following information shall be stated by the manufacturer if applicable, e.g. in the manufacturer's data sheet, or his catalogue or on the packing unit:		
	- manufacturer's claim for compliance with IEC 60 947-7-1	**IEC 60947-7-1 (catalogue)**	**P**
	- rated cross-section	**Type 2006-803x:** **Supply 6 mm² or 10 mm²** **Load 1,5 mm² or 2,5 mm²** **(catalogue)** **Remaining types:** **6 mm² or 10 mm²** **(catalogue)**	**P**
	- rated connecting capacity	**0,5 mm² - 10 mm²** **(catalogue)**	**P**
	- rated insulation voltage (Ui)	**250 V, 800 V, 1000 V** **(catalogue)** **(see page 46 - 48)**	**P**
	- rated impulse withstand voltage (Uimp)	**4 kV, 8 kV, 12 kV** **(catalogue)** **(see page 46 - 48)**	**P**
	- conventional free air thermal current (Ith)	**Type 2006-803x:** **Supply side 41 A (6 mm²) /** **57 A (10 mm²)** **Load side 17,5 A (1,5 mm² /** **24 A (2,5 m²)** **Remaining types** **41 A (6 mm²)** **57 A (10 mm²)** **30 A (6 mm² for disconnect terminal blocks)**	**P**
	- service conditions if different from those of Cl. 6.		**N/A**

7.	**CONSTRUCTION**		
7.1	Constructional requirements		
7.1.1	Clamping units		

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
7.1.7.1	All parts of clamping units which maintain contact and carry current shall be of metal having adequate mechanical strength		**P**
	Clamping units connections shall be such that necessary contact pressure is maintained		**P**
	Clamping units shall be so constructed that the conductor is clamped between suitable surfaces without damage to the conductor and terminal		**P**
	Clamping units shall not allow the conductor to be displaced or to be displaced themselves in a manner detrimental to the operation of equipment and the insulation voltage shall not be reduced below the rated value		**P**
	Clamping units shall allow the conductor to be connected by means ensuring that a reliable mechanical linkage and electrical contact is properly maintained		**P**
	Clamping units shall be able to withstand the forces that can be applied through the connected conductors		**P**
	Contact pressure is not transmitted through insulation materials		**P**
7.1.2	Mounting		
	Terminal blocks shall be provided with means that allow them to be securely attached to a rail or a mounting surface (see 8.3.2)		**P**
7.1.3	Clearances and creepage distances		
	For clearances and creepage distances see 8.4.2		
7.1.4	Terminal identification and marking:		
	- terminals intended exclusively for the neutral conductor		**P**
	- other terminals		

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	- terminal blocks shall have provision, or at least space, for identification marks or numbers for each terminal or terminal assembly to be related to the circuit of which it is to form a part		**P**
	- For the identification of the terminal block the colour combination green-yellow is not allowed		**P**
7.1.5	Resistance to abnormal heat and fire		
	Needle flame test for insulation materials of terminal blocks (see 8.5)	**5 s**	**P**
7.1.6	Rated cross-section and rated connecting capacity		
	Terminal blocks are so designed that conductors of the rated cross-section and/or the rated connecting capacity can be accepted	**0,5 mm² - 10 mm²**	**P**
8	**TESTS**		
8.3	Verification of mechanical characteristics		
8.3.2	Attachment of the terminal block on its support **(types 2006-1301, 2006-1601, 2006-8601, 2006-8033)**		
	mounting rail ..... :	**top hat rail 35 mm**	—
	Tighting torque (Nm) ..... :	**-**	—
	steel pin diameter (mm) ..... :	**2,8 mm**	—
	force (N) ..... :	**5 N**	—
	During the test, no terminal block shall work free from its rail or support, nor suffer any other damage		**P**
8.3.3	Mechanical properties of clamping units		
8.3.3.1	Test of mechanical strength of clamping units **Type 2006-1301**		
8.2.4.1	Mechanical strength of clamping units (IEC60947-1)		
	rated cross-section of a rigid conductor (mm²) ... :	**6 mm²**	—
	diameter of thread (mm) ..... :	**-**	—
	torque (Nm) ..... :	**-**	—

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	5 times on 2 clamping units at the centre terminal block out of 5 terminal blocks	**5 times inserted and removed**	**P**
	Voltage drop before and after mechanical strength test		
	rated cross-section of a rigid conductor (mm²) ... :	**6 mm²**	—
	test current (A) d.c. ..... :	**4,1 A**	—
	voltage drop (mV) before mechanical strength test not exceeding 3,2 mV ..... :	**1,89 mV – 2,11 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**N/A**
	voltage drop (mV) after mechanical strength test not exceeding 150% of the value measured before mechanical strength test :	**1,97 mV – 2,05 mV**	**P**
8.2.4.1	Mechanical strength of clamping units (IEC60947-1)		
	rated cross-section of a rigid conductor (mm²) ... :	**10 mm²**	—
	diameter of thread (mm) ..... :	**-**	—
	torque (Nm) ..... :	**-**	—
	5 times on 2 clamping units at the centre terminal block out of 5 terminal blocks		**P**
	Voltage drop before and after mechanical strength test		
	rated cross-section of a rigid conductor (mm²) ... :	**10 mm²**	—
	test current (A) d.c. ..... :	**5,7 A**	—
	voltage drop (mV) before mechanical strength test not exceeding 3,2 mV ..... :	**1,87 mV – 1,72 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**N/A**
	voltage drop (mV) after mechanical strength test not exceeding 150% of the value measured before mechanical strength test :	**1,93 mV – 1,68 mV**	**P**
	minimum cross-section of a flexible conductor (mm²) ..... :	**0,5 mm²**	—

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	test current (A) d.c. ..... :	**0,6 A**	—
	voltage drop (mV) before mechanical strength test not exceeding 3,2 mV ..... :	**1,32 mV – 1,24 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**N/A**
	voltage drop (mV) after mechanical strength test not exceeding 150% of the value measured before mechanical strength test ..... :	**1,38 mV – 1,18 mV**	**P**
8.3.3.1	Test of mechanical strength of clamping units **Type 2006-8033 load side**		
8.2.4.1	Mechanical strength of clamping units (IEC60947-1)		
	rated cross-section of a rigid conductor (mm²) ... :	**2,5 mm²**	—
	diameter of thread (mm) ..... :	**-**	—
	torque (Nm) ..... :	**-**	—
	5 times on 2 clamping units at the centre terminal block out of 5 terminal blocks	**5 times inserted and removed**	**P**
	Voltage drop before and after mechanical strength test		
	rated cross-section of a rigid conductor (mm²) ... :	**1,5 mm²**	—
	test current (A) d.c. ..... :	**1,75 A**	—
	voltage drop (mV) before mechanical strength test not exceeding 3,2 mV ..... :	**1,56 mV and 1,73 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**N/A**
	voltage drop (mV) after mechanical strength test not exceeding 150% of the value measured before mechanical strength test :	**1,67 mV and 1,76 mV**	**P**
	Voltage drop before and after mechanical strength test		
	rated cross-section of a rigid conductor (mm²) ... :	**2,5 mm²**	—
	test current (A) d.c. ..... :	**2,4 A**	—

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	voltage drop (mV) before mechanical strength test not exceeding 3,2 mV ..... :	**2,25 mV and 2,39 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**N/A**
	voltage drop (mV) after mechanical strength test not exceeding 150% of the value measured before mechanical strength test :	**2,38 mV and 2,48 mV**	**P**
	minimum cross-section of a flexible conductor (mm²) ..... :	**0,2 mm²**	—
	test current (A) d.c. ..... :	**0,4 A**	—
	voltage drop (mV) before mechanical strength test not exceeding 3,2 mV ..... :	**1,03 mV and 1,11 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**N/A**
	voltage drop (mV) after mechanical strength test not exceeding 150% of the value measured before mechanical strength test ..... :	**1,09 mV and 1,14 mV**	**P**
8.3.3.2	Testing for damage to and accidental loosening of conductors of a terminal block (flexion test) **Type 2006-1301**		
	conductor of the smallest cross-section (mm²) ... :	**0,5 mm² rigid and flexible**	—
	number of conductors of the smallest cross-section ..... :	**1**	—
	torque (Nm) ..... :	**screwless**	—
	diameter of bushing hole (mm) ..... :	**6,5 mm**	—
	height between the equipment and the platen (mm) ..... :	**260 mm**	—
	mass at the conductor(s) (kg) ..... :	**0,3 kg**	—

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	135 continuous revolutions: the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
	Pull-out test		
	force (N) ..... :	**30 N**	—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		
	conductor of the rated cross-section (mm²) ..... :	**6 mm² rigid and flexible**	—
	number of conductors of the rated cross-section :	**1**	—
	torque (Nm) ..... :	**screwless**	—
	diameter of bushing hole (mm) ..... :	**9,5 mm**	—
	height between the equipment and the platen (mm) ..... :	**280 mm**	—
	mass at the conductor(s) (kg) ..... :	**1,4 kg**	—
	135 continuous revolutions: the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
	Pull-out test		
	force (N) ..... :	**80 N**	—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
	conductor of the largest cross-section (mm²) ..... :	**10 mm² rigid and flexible**	—
	number of conductors of the largest cross-section ..... :	**1**	—
	torque (Nm) ..... :	**screwless**	—
	diameter of bushing hole (mm) ..... :	**9,5 mm**	—
	height between the equipment and the platen (mm) ..... :	**280 mm**	—
	mass at the conductor(s) (kg) ..... :	**2 kg**	—
	135 continuous revolutions: the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Pull-out test		
	force (N) ..... :	**90 N**	—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
	conductor of the largest or smallest cross-section (mm²) ..... :		—
	number of conductors of the largest or smallest cross-section ..... :		—
	torque (Nm) ..... :		—
	diameter of bushing hole (mm) ..... :		—
	height between the equipment and the platen (mm) ..... :		—
	mass at the conductor(s) (kg) ..... :		—
	135 continuous revolutions: the conductor shall neither slip out of the terminal nor break near the clamping unit		**N/A**
	Pull-out test		
	force (N) ..... :		—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		**N/A**
8.3.3.2	Testing for damage to and accidental loosening of conductors of a terminal block (flexion test) **Type 2006-8033**		
	conductor of the smallest cross-section (mm²) ... :	**0,5 mm² rigid and flexible supply side** **0,25 mm² rigid and flexible load side (on request of manufacturer)**	—
	number of conductors of the smallest cross-section ..... :	**1**	—
	torque (Nm) ..... :	**screwless**	—
	diameter of bushing hole (mm) ..... :	**6,5 mm**	—

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Clause	Requirement – Test	Result - Remark	Verdict
	height between the equipment and the platen (mm) ..... :	**260 mm**	—
	mass at the conductor(s) (kg) ..... :	**0,3 kg**	—
	135 continuous revolutions: the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
	Pull-out test		
	force (N) ..... :	**0,5 mm² rigid and flexible supply side 30 N (on request of manufacturer) 0,25 mm² rigid and flexible load side 13,4 N (on request of manufacturer)**	—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit	**1**	
	conductor of the rated cross-section (mm²) ..... :	**6 mm² rigid and flexible supply side**	—
	number of conductors of the rated cross-section :	**1**	—
	torque (Nm) ..... :	**screwless**	—
	diameter of bushing hole (mm) ..... :	**9,5 mm**	—
	height between the equipment and the platen (mm) ..... :	**280 mm**	—
	mass at the conductor(s) (kg) ..... :	**1,4 kg**	—
	135 continuous revolutions: the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
	Pull-out test		
	force (N) ..... :	**80 N**	—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
	conductor of the rated cross-section (mm²) ..... :	**1,5 mm² rigid and flexible load side**	—

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Clause	Requirement – Test	Result - Remark	Verdict
	number of conductors of the rated cross-section :	**1**	—
	torque (Nm) ..... :	**screwless**	—
	diameter of bushing hole (mm) ..... :	**6,5 mm**	—
	height between the equipment and the platen (mm) ..... :	**260 mm**	—
	mass at the conductor(s) (kg) ..... :	**0,4 kg**	—
	135 continuous revolutions: the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
	Pull-out test		
	force (N) ..... :	**40 N**	—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
	conductor of the rated cross-section (mm²) ..... :	**2,5 mm² rigid and flexible load side**	—
	number of conductors of the rated cross-section :	**1**	—
	torque (Nm) ..... :	**screwless**	—
	diameter of bushing hole (mm) ..... :	**9,5 mm**	—
	height between the equipment and the platen (mm) ..... :	**280 mm**	—
	mass at the conductor(s) (kg) ..... :	**0,7 kg**	—
	135 continuous revolutions: the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
	Pull-out test		
	force (N) ..... :	**50 N**	—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
	conductor of the largest cross-section (mm²) ..... :	**10 mm² rigid and flexible supply side**	—
	number of conductors of the largest cross-section ..... :	**1**	—

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Clause	Requirement – Test	Result - Remark	Verdict
	torque (Nm) ..... :	**screwless**	—
	diameter of bushing hole (mm) ..... :	**9,5 mm**	—
	height between the equipment and the platen (mm) ..... :	**280 mm**	—
	mass at the conductor(s) (kg) ..... :	**2 kg**	—
	135 continuous revolutions: the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
	Pull-out test		
	force (N) ..... :	**90 N**	—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
	conductor of the largest or smallest cross-section (mm²) ..... :		—
	number of conductors of the largest or smallest cross-section ..... :		—
	torque (Nm) ..... :		—
	diameter of bushing hole (mm) ..... :		—
	height between the equipment and the platen (mm) ..... :		—
	mass at the conductor(s) (kg) ..... :		—
	135 continuous revolutions: the conductor shall neither slip out of the terminal nor break near the clamping unit		**N/A**
	Pull-out test		
	force (N) ..... :		—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		**N/A**
8.3.3.4	Verification of rated cross section and rated connecting capacity		

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	One conductor of the two next smaller cross-sections can be unhindered and connected in each clamping unit of one terminal block (up to 35 mm²)	**Type 2006-803x: Supply side 2,5 mm² Load side 0,75 mm²** **Other types: 2,5 mm²**	**P**
8.4.2	Verification of clearances and creepage distances **(type 2006-1306)**		
	Conductor type and conductor cross-section	**10 mm² rigid**	—
	Conductor end length (mm)	**13 - 15 mm**	—
	Type of support	**top hat rail 35 mm**	—
8.4.2.2	Clearances		
	Case A mm) ..... : Case B mm) ..... : Measured mm) ..... :	**8 mm** **3 mm** **12,5 mm**	**P**
	Rated impulse withstand voltage Uimp (kV)	**8 kV**	**P**
8.4.2.3	Creepage distances:		
	- pollution degree ..... :	**3**	—
	- comparative tracking index (V) ..... :	**600 V**	—
	- material group ..... :	**I**	—
	- rated insulation voltage Ui (V) ..... :	**800 V**	—
	- minimum creepage distances (mm) ..... :	**10 mm**	—
	- measured creepage distances (mm) ..... :	**> 14 mm**	—
	- pollution degree ..... :	**2**	—
	- comparative tracking index (V) ..... :	**600 V**	—
	- material group ..... :	**I**	—
	- rated insulation voltage Ui (V) ..... :	**1000 Vac / 1500 Vdc**	—
	- minimum creepage distances (mm) ..... :	**5 mm (increased to 8 mm due to pollution degree 3) / 8 mm**	—
	- measured creepage distances (mm) ..... :	**> 14 mm**	—
8.4.2	Verification of clearances and creepage distances **(type 2006-7114)**		
	Conductor type and conductor cross-section	**10 mm² rigid**	—
	Conductor end length (mm)	**13 – 15 mm**	—

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Clause	Requirement – Test	Result - Remark	Verdict
	Type of support	**Top hat rail 35 mm**	—
8.4.2.2	Clearances		
	Case A mm) ..... : Case B mm) ..... : Measured mm) ..... :	**3 mm** **1,2 mm** **12,5 mm**	**P**
	Rated impulse withstand voltage Uimp (kV)	**4 kV**	**P**
8.4.2.3	Creepage distances:		
	- pollution degree ..... :	**3**	—
	- comparative tracking index (V) ..... :	**600 V**	—
	- material group ..... :	**I**	—
	- rated insulation voltage Ui (V) ..... :	**250 V**	—
	- minimum creepage distances (mm) ..... :	**3,2 mm**	—
	- measured creepage distances (mm) ..... :	**> 3,2 mm**	—
8.4.2	Verification of clearances and creepage distances **(type 2006-1601)**		
	Conductor type and conductor cross-section	**10 mm² rigid**	—
	Conductor end length (mm)	**13 – 15 mm**	—
	Type of support	**Top hat rail 35 mm**	—
8.4.2.2	Clearances		
	Case A mm) ..... : Case B mm) ..... : Measured mm) ..... :	**8 mm** **3 mm** **11,25 mm**	**P**
	Rated impulse withstand voltage Uimp (kV)	**8 kV**	**P**
8.4.2.3	Creepage distances:		
	- pollution degree ..... :	**3**	—
	- comparative tracking index (V) ..... :	**600 V**	—
	- material group ..... :	**I**	—
	- rated insulation voltage Ui (V) ..... :	**800 V**	—
	- minimum creepage distances (mm) ..... :	**10 mm**	—
	- measured creepage distances (mm) ..... :	**> 11,25 mm**	—
8.4.2	Verification of clearances and creepage distances **(type 2006-8601)**		

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Conductor type and conductor cross-section	**10 mm² rigid**	—
	Conductor end length (mm)	**13 - 15 mm**	—
	Type of support	**Top hat rail 35 mm**	—
8.4.2.2	Clearances		
	Case A mm) ..... : Case B mm) ..... : Measured mm) ..... :	**14 mm** **4,5 mm** **14,68 mm**	**P**
	Rated impulse withstand voltage Uimp (kV)	**12 kV**	**P**
8.4.2.3	Creepage distances:		
	- pollution degree ..... :	**3**	—
	- comparative tracking index (V) ..... :	**600 V**	—
	- material group ..... :	**I**	—
	- rated insulation voltage Ui (V) ..... :	**1000 Vac / 1500 Vdc**	—
	- minimum creepage distances (mm) ..... :	**12,5 mm (increased to 14 mm due to pollution degree 3) / 20 mm**	—
	- measured creepage distances (mm) ..... :	**> 25 mm**	—
8.4.2	Verification of clearances and creepage distances **(type 2006-8033)**		
	Conductor type and conductor cross-section	**10 mm² rigid supply side** **2,5 mm² rigid load side**	—
	Conductor end length (mm)	**13 - 15 mm**	—
	Type of support	**Top hat rail 35 mm**	—
8.4.2.2	Clearances		
	Case A mm) ..... : Case B mm) ..... : Measured mm) ..... :	**8 mm** **3 mm** **11,8 mm**	**P**
	Rated impulse withstand voltage Uimp (kV)	**8 kV**	**P**
8.4.2.3	Creepage distances:		
	- pollution degree ..... :	**3**	—
	- comparative tracking index (V) ..... :	**600 V**	—
	- material group ..... :	**I**	—

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	- rated insulation voltage Ui (V) ..... :	**800 V**	—
	- minimum creepage distances (mm) ..... :	**10 mm**	—
	- measured creepage distances (mm) ..... :	**11,8 mm**	—
8.4	Verification of electrical characteristics		
8.4.3	Dielectric tests **(types 2006-1306 and 2006-1601)**		
	Dielectric test, Uimp indicated:		
	- five terminal blocks connected with unfavourable cross-section (mm²) / type / conductor end length (mm) ..... :	**10 mm², rigid, 13 - 15 mm**	—
	- rated impulse withstand voltage (kV) ..... :	**8 kV**	—
	- test Uimp main circuits (kV) ..... :	**9,8 kV**	**P**
	Dielectric test, Uimp not indicated:		
	- five terminal blocks connected with unfavourable cross-section (mm²) / type / conductor end length (mm) :	**10 mm², rigid, 13 - 15 mm**	—
	- rated insulation voltage (V) ..... :	**800 V**	—
	- test voltage for 60 sec (V) ..... :	**2000 V tested for 5 s** According to IEC 60947-1 A2:2014 re-testing according to 60 s is not necessary	**P**
8.4.3	Dielectric tests **(type 2006-1306)**		
	Dielectric test, Uimp indicated:		
	- five terminal blocks connected with unfavourable cross-section (mm²) / type / conductor end length (mm) ..... :	**10 mm², rigid, 13 - 15 mm**	—
	- rated impulse withstand voltage (kV) ..... :	**8 kV**	—
	- test Uimp main circuits (kV) ..... :	**9,8 kV**	**P**
	Dielectric test, Uimp not indicated:		
	- five terminal blocks connected with unfavourable cross-section (mm²) / type / conductor end length (mm) :	**10 mm², rigid, 13 - 15 mm**	—

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	- rated insulation voltage (V) ..... :	**1000 Vac /1500 Vdc**	—
	- test voltage for 60 sec (V) ..... :	**2200 Vac / 3820 Vdc**	**P**
8.4.3	Dielectric tests **(types 2006-7114)**		
	Dielectric test, Uimp indicated:		
	- five terminal blocks connected with unfavourable cross-section (mm²) / type / conductor end length (mm) ..... :	**10 mm², rigid, 13 - 15 mm**	—
	- rated impulse withstand voltage (kV) ..... :	**4 kV**	—
	- test Uimp main circuits (kV) ..... :	**4,8 kV**	**P**
	Dielectric test, Uimp not indicated:		
	- five terminal blocks connected with unfavourable cross-section (mm²) / type / conductor end length (mm) :	**10 mm², rigid, 13 - 15 mm**	—
	- rated insulation voltage (V) ..... :	**250 V**	—
	- test voltage for 60 sec (V) ..... :	**1500 V tested for 5 s** According to IEC 60947-1 A2:2014 re-testing according to 60 s is not necessary	**P**
8.4.3	Dielectric tests **(type 2006-8601)**		
	Dielectric test, Uimp indicated:		
	- five terminal blocks connected with unfavourable cross-section (mm²) / type / conductor end length (mm) ..... :	**10 mm², rigid, 13 - 15 mm**	—
	- rated impulse withstand voltage (kV) ..... :	**12 kV**	—
	- test Uimp main circuits (kV) ..... :	**14,8 kV**	**P**
	Dielectric test, Uimp not indicated:		
	- five terminal blocks connected with unfavourable cross-section (mm²) / type / conductor end length (mm) :	**10 mm², rigid, 13 - 15 mm**	—
	- rated insulation voltage (V) ..... :	**1000 Vac / 1500 Vdc**	—

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	- test voltage for 60 sec (V) ..... :	**3820 V dc tested for 5 s** According to IEC 60947-1 A2:2014 re-testing according to 60 s is not necessary	**P**
8.4.3	Dielectric tests **(types 2006-8033)**		
	Dielectric test, Uimp indicated:		
	- five terminal blocks connected with unfavourable cross-section (mm²) / type / conductor end length (mm) ..... :	**10 mm² rigid supply side 2,5 mm² rigid load side, 13 - 15 mm**	—
	- rated impulse withstand voltage (kV) ..... :	**8 kV**	—
	- test Uimp main circuits (kV) ..... :	**9,8 kV**	**P**
	Dielectric test, Uimp not indicated:		
	- five terminal blocks connected with unfavourable cross-section (mm²) / type / conductor end length (mm) :	**10 mm² rigid supply side 2,5 mm² rigid load side, 13 - 15 mm**	—
	- rated insulation voltage (V) ..... :	**800 V**	—
	- test voltage for 60 sec (V) ..... :	**2000 V**	**P**

8.4.5	Temperature-rise test **(type 2006-1301)**		
	Temperature-rise conditions:		
	- test current (A) ..... :	**41 A**	—
	- cross-section of the conductor (mm²) ..... :	**6 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- temperature-rise does not exceed 45 K	**28 K - 39 K**	
	Voltage drop before and after temperature-rise test:		
	- test current (A) d.c. ..... :	**4,1 A**	—
	- voltage drop (mV) before temperature-rise test not exceeding 3,2 mV ..... :	**1,71 mV – 2,11 mV**	**P**

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**N/A**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**1,74 mV – 2,11 mV**	**P**
8.4.5	Temperature-rise test **(type 2006-1301)**		
	Temperature-rise conditions:		
	- test current (A) ..... :	**57 A**	—
	- cross-section of the conductor (mm²) ..... :	**10 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- temperature-rise does not exceed 45 K	**28 K - 39 K**	**P**
	Voltage drop before and after temperature-rise test:		
	- test current (A) d.c. ..... :	**5,7 A**	—
	- voltage drop (mV) before temperature-rise test not exceeding 3,2 mV ..... :	**1,61 mV – 1,81 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**N/A**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**1,57 mV – 1,86 mV**	**P**
8.4.5	Temperature-rise test **(type 2006-8601)**		
	Temperature-rise conditions:		
	- test current (A) ..... :	**30 A (terminal block is provided with disconnect part, which cannot be operated.**	—
	- cross-section of the conductor (mm²) ..... :	**6 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- temperature-rise does not exceed 45 K	**21,8 K - 29,3 K**	**P**

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Clause	Requirement – Test	Result - Remark	Verdict
	Voltage drop before and after temperature-rise test:		
	- test current (A) d.c. ..... :	**4,1 A**	—
	- voltage drop (mV) before temperature-rise test not exceeding 3,2 mV ..... :		**N/A**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV	**0,55 mV – 1,16 mV**	**P**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**0,58 mV – 1,71 mV**	**P**
8.4.5	Temperature-rise test **(type 2006-8033)**		
	Temperature-rise conditions:		
	- test current (A) ..... :	**41 A (6 mm²) supply side** **17,5 A + 17,5 A + 6 A** **(1,5 mm²) load side**	—
	- cross-section of the conductor (mm²) ..... :	**6 mm² supply side** **1,5 mm² load side**	—
	- torque (Nm) ..... :	**screwless**	—
	- temperature-rise does not exceed 45 K	**20,0 K - 32,4 K**	**P**
	Voltage drop before and after temperature-rise test:		
	- test current (A) d.c. ..... :	**4,1 A (6 mm²) supply side** **1,75 A + 1,75 A + 0,6 A** **(1,5 mm²) load side**	—
	- voltage drop (mV) before temperature-rise test not exceeding 3,2 mV ..... :		**N/A**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV	**1,37 mV – 2,01 mV**	**P**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**1,42 mV – 2,03 mV**	**P**
8.4.5	Temperature-rise test **(type 2006-8033)**		

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Clause	Requirement – Test	Result - Remark	Verdict
	Temperature-rise conditions:		
	- test current (A) ..... :	**41 A (6 mm²) supply side** **24 A + 17 A** **(2,5 mm²) load side**	—
	- cross-section of the conductor (mm²) ..... :	**6 mm² supply side** **2,5 mm² load side**	—
	- torque (Nm) ..... :	**screwless**	—
	- temperature-rise does not exceed 45 K	**28,1 K - 43,4 K**	**P**
	Voltage drop before and after temperature-rise test:		
	- test current (A) d.c. ..... :	**4,1 A (6 mm²) supply side** **2,4 A + 1,75A** **(2,5 mm²) load side**	—
	- voltage drop (mV) before temperature-rise test not exceeding 3,2 mV ..... :		**N/A**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV	**1,49 mV – 2,10 mV**	**P**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**1,48 mV – 2,18 mV**	**P**
8.4.5	Temperature-rise test **(type 2006-8033)**		
	Temperature-rise conditions:		
	- test current (A) ..... :	**57 A (10 mm²) supply side** **3 x 17,5 A + 4,5 A** **(1,5 mm²) load side**	—
	- cross-section of the conductor (mm²) ..... :	**10 mm² supply side** **1,5 mm² load side**	—
	- torque (Nm) ..... :	**screwless**	—
	- temperature-rise does not exceed 45 K	**23,9 K - 39,3 K**	**P**
	Voltage drop before and after temperature-rise test:		

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Clause	Requirement – Test	Result - Remark	Verdict
	- test current (A) d.c. ..... :	**5,7 A (10 mm²) supply side** **3 x 1,75 A + 0,45 A** **(1,5 mm²) load side**	—
	- voltage drop (mV) before temperature-rise test not exceeding 3,2 mV ..... :		**N/A**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV	**1,49 mV – 1,68 mV**	**P**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**1,53 mV – 1,69 mV**	**P**
8.4.5	Temperature-rise test **(type 2006-8033)**		
	Temperature-rise conditions:		
	- test current (A) ..... :	**57 A (10 mm²) supply side** **24 A + 24 A + 9 A** **(2,5 mm²) load side**	—
	- cross-section of the conductor (mm²) ..... :	**10 mm² supply side** **2,5 mm² load side**	—
	- torque (Nm) ..... :	**screwless**	—
	- temperature-rise does not exceed 45 K	**24,2 K - 36,3 K**	**P**
	Voltage drop before and after temperature-rise test:		
	- test current (A) d.c. ..... :	**5,7 A (10 mm²) supply side** **2,4 A + 2,4 A + 0,9 A** **(2,5 mm²) load side**	—
	- voltage drop (mV) before temperature-rise test not exceeding 3,2 mV ..... :		**N/A**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV	**2,02 mV – 2,36 mV**	**P**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**2,08 mV – 2,47 mV**	**P**

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Clause	Requirement – Test	Result - Remark	Verdict
8.4.6	Short-time withstand current test **(type 2006-3101)**		
	- rated cross-section of the conductor (mm²) ..... :	**6 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- test current (A) ..... :	**720 A**	—
	- duration of the test current (s) ..... :	**1 s**	—
	At the end of the test, continuity shall exist on the test sample assembly and the terminal blocks shall not show any cracking, breakage or other critical damage		**P**
	Voltage drop before and after short-time withstand current test		
	- test current (A) d.c. ..... :	**4,1**	—
	- voltage drop (mV) before short-time withstand current test not exceeding 3,2 mV ..... :	**1,99 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**N/A**
	- voltage drop (mV) after short-time withstand current test not exceeding 150% of the value measured before short-time withstand current test ..... :	**2,15 mV**	**P**
	- rated cross-section of the conductor (mm²) ..... :	**10 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- test current (A) ..... :	**1200 A**	—
	- duration of the test current (s) ..... :	**1 s**	—
	At the end of the test, continuity shall exist on the test sample assembly and the terminal blocks shall not show any cracking, breakage or other critical damage		**P**
	Voltage drop before and after short-time withstand current test		
	- test current (A) d.c. ..... :	**5,7 A**	—
	- voltage drop (mV) before short-time withstand current test not exceeding 3,2 mV ..... :	**1,68 mV**	**P**

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Clause	Requirement – Test	Result - Remark	Verdict
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**N/A**
	- voltage drop (mV) after short-time withstand current test not exceeding 150% of the value measured before short-time withstand current test ..... :	**1,89 mV**	**P**
8.4.6	Short-time withstand current test **(type 2006-8601)**		
	- rated cross-section of the conductor (mm²) ..... :	**6 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- test current (A) ..... :	**720 A**	—
	- duration of the test current (s) ..... :	**1 s**	—
	At the end of the test, continuity shall exist on the test sample assembly and the terminal blocks shall not show any cracking, breakage or other critical damage		**P**
	Voltage drop before and after short-time withstand current test		
	- test current (A) d.c. ..... :	**4,1**	—
	- voltage drop (mV) before short-time withstand current test not exceeding 3,2 mV ..... :		**N/A**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV	**0,91**	**P**
	- voltage drop (mV) after short-time withstand current test not exceeding 150% of the value measured before short-time withstand current test ..... :	**0,95**	**P**
8.4.6	Short-time withstand current test **(type 2006-8033)**		
	- rated cross-section of the conductor (mm²) ..... :	**6 mm² supply side** **4 x 1,5 mm² load side**	—
	- torque (Nm) ..... :	**screwless**	—
	- test current (A) ..... :	**720 A**	—

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Clause	Requirement – Test	Result - Remark	Verdict
	- duration of the test current (s) ..... :	**1 s**	—
	At the end of the test, continuity shall exist on the test sample assembly and the terminal blocks shall not show any cracking, breakage or other critical damage		**P**
	Voltage drop before and after short-time withstand current test		
	- test current (A) d.c. ..... :	**7 A (6 mm²) supply side** **4 x 1,75 A** **(1,5 mm²) load side**	—
	- voltage drop (mV) before short-time withstand current test not exceeding 3,2 mV ..... :	**6 mm² to first 1,5 mm²: 2,43 mV** **6 mm² to second 1,5 mm²: 2,56 mV** **6 mm² to firth 1,5 mm²: 2,68 mV** **6 mm² to fourth 1,5 mm²: 2,51 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**P**
	- voltage drop (mV) after short-time withstand current test not exceeding 150% of the value measured before short-time withstand current test ..... :	**6 mm² to first 1,5 mm²: 2,50 mV** **6 mm² to second 1,5 mm²: 2,49 mV** **6 mm² to third 1,5 mm²: 2,55 mV** **6 mm² to fourth 1,5 mm²: 2,61 mV**	**P**
8.4.6	Short-time withstand current test **(type 2006-8033)**		
	- rated cross-section of the conductor (mm²) ..... :	**10 mm² supply side** **4 x 2,5 mm² load side**	—
	- torque (Nm) ..... :	**screwless**	—
	- test current (A) ..... :	**1200 A**	—
	- duration of the test current (s) ..... :	**1 s**	—
	At the end of the test, continuity shall exist on the test sample assembly and the terminal blocks shall not show any cracking, breakage or other critical damage		**P**
	Voltage drop before and after short-time withstand current test		

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Clause	Requirement – Test	Result - Remark	Verdict
	- test current (A) d.c. ..... :	**9,6 A (10 mm²) supply side** **4 x 2,4 A** **(2,5 mm²) load side**	—
	- voltage drop (mV) before short-time withstand current test not exceeding 3,2 mV ..... :	**10 mm² to first 2,5 mm²: 2,98 mV** **10 mm² to second 2,5mm²: 3,02 mV** **10 mm² to third 2,5 mm²: 3,05 mV** **10 mm² to fourth 2,5 mm²: 3,11 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**P**
	- voltage drop (mV) after short-time withstand current test not exceeding 150% of the value measured before short-time withstand current test ..... :	**10 mm² to first 2,5 mm²: 3,05 mV** **10 mm² to second 2,5mm²: 3,04 mV** **10 mm² to third 2,5 mm²: 3,08 mV** **10 mm² to fourth 2,5 mm²: 3,10 mV**	**P**
8.4.7	Ageing test (for screwless-type terminal blocks only) **(type 2006-1301)**		
	Maximum ambient temperature (°C) ..... :	**40 °C /**	—
	Rated cross-section rigid or stranded < 10 mm² solid, > 10 mm² stranded (mm²) ..... :	**6 mm²**	—
	Test current (A) according 8.4.5 ..... :	**41 A**	—
	Heating cabinet is increased, in each cycle to (°C) ..... :		—
	Test current (A) d.c. for measurement of the voltage drop ..... :	**4,1 A**	—
	Voltage drop after 0 cycles:		
	- requirement: ≤ 3,2 mV (mV) ..... :	**1 – 1,40 mV** **2 – 1,20 mV** **3 – 1,60 mV** **4 – 1,70 mV** **5 – 1,80 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**P**
	Voltage drop after the 24th cycle:		

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Clause	Requirement – Test	Result - Remark	Verdict
	- requirement: 4,8 mV (mV) ..... :	**1 – 1,40 mV** **2 – 1,20 mV** **3 – 1,60 mV** **4 – 1,70 mV** **5 – 1,80 mV**	**P**
	Voltage drop after the 48th cycle		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,40 mV** **2 – 1,20 mV** **3 – 1,60 mV** **4 – 1,70 mV** **5 – 1,80 mV**	**P**
	Voltage drop after the 72nd cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,40 mV** **2 – 1,20 mV** **3 – 1,60 mV** **4 – 1,70 mV** **5 – 1,80 mV**	**P**
	Voltage drop after the 96th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,40 mV** **2 – 1,20 mV** **3 – 1,60 mV** **4 – 1,70 mV** **5 – 1,80 mV**	**P**
	Voltage drop after the 120th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,40 mV** **2 – 1,20 mV** **3 – 1,60 mV** **4 – 1,70 mV** **5 – 1,80 mV**	**P**
	Voltage drop after the 144th cycle:		

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Clause	Requirement – Test	Result - Remark	Verdict
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,40 mV** **2 – 1,20 mV** **3 – 1,60 mV** **4 – 1,70 mV** **5 – 1,80 mV**	**P**
	Voltage drop after the 168th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,40 mV** **2 – 1,20 mV** **3 – 1,60 mV** **4 – 1,70 mV** **5 – 1,80 mV**	**P**
	Voltage drop after the 192nd cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,40 mV** **2 – 1,20 mV** **3 – 1,60 mV** **4 – 1,70 mV** **5 – 1,80 mV**	**P**
	Pull-out test		
	force (N) ..... :	**80 N**	—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
8.4.7	Ageing test (for screwless-type terminal blocks only) **(type 2006-1301)**		
	Maximum ambient temperature (°C) ..... :	**40 °C /**	—
	Rated cross-section rigid or stranded < 10 mm² solid, > 10 mm² stranded (mm²) ..... :	**10 mm²**	—
	Test current (A) according 8.4.5 ..... :	**57 A**	—
	Heating cabinet is increased, in each cycle to (°C) ..... :		—
	Test current (A) d.c. for measurement of the voltage drop ..... :	**5,7 A**	—
	Voltage drop after 0 cycles:		

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Clause	Requirement – Test	Result - Remark	Verdict
	- requirement: ≤ 3,2 mV (mV) ..... :	**1 – 1,62 mV** **2 – 1,75 mV** **3 – 1,45 mV** **4 – 1,45 mV** **5 – 1,50 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**N/A**
	Voltage drop after the 24th cycle:		
	- requirement: 4,8 mV (mV) ..... :	**1 – 1,69 mV** **2 – 1,81 mV** **3 – 1,49 mV** **4 – 1,49 mV** **5 – 1,53 mV**	**P**
	Voltage drop after the 48th cycle		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,64 mV** **2 – 1,81 mV** **3 – 1,49 mV** **4 – 1,49 mV** **5 – 1,53 mV**	**P**
	Voltage drop after the 72nd cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,65 mV** **2 – 1,82 mV** **3 – 1,49 mV** **4 – 1,50 mV** **5 – 1,53 mV**	**P**
	Voltage drop after the 96th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,65 mV** **2 – 1,83 mV** **3 – 1,49 mV** **4 – 1,50 mV** **5 – 1,53 mV**	**P**

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Clause	Requirement – Test	Result - Remark	Verdict
	Voltage drop after the 120th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,66 mV** **2 – 1,84 mV** **3 – 1,49 mV** **4 – 1,50 mV** **5 – 1,53 mV**	**P**
	Voltage drop after the 144th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,66 mV** **2 – 1,84 mV** **3 – 1,49 mV** **4 – 1,50 mV** **5 – 1,54 mV**	**P**
	Voltage drop after the 168th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,66 mV** **2 – 1,84 mV** **3 – 1,49 mV** **4 – 1,50 mV** **5 – 1,54 mV**	**P**
	Voltage drop after the 192nd cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,66 mV** **2 – 1,84 mV** **3 – 1,49 mV** **4 – 1,50 mV** **5 – 1,54 mV**	**P**
	Pull-out test		
	force (N) ..... :	**90 N**	—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
8.4.7	Ageing test (for screwless-type terminal blocks only) **type 2006-8033 load side**		
	Maximum ambient temperature (°C) ..... :	**40 °C**	—

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Clause	Requirement – Test	Result - Remark	Verdict
	Rated cross-section rigid or stranded < 10 mm² solid, > 10 mm² stranded (mm²) ..... :	**1,5 mm²**	—
	Test current (A) according 8.4.5 ..... :	**17,5 A**	—
	Heating cabinet is increased, in each cycle to (°C) ..... :		—
	Test current (A) d.c. for measurement of the voltage drop ..... :	**1,75 A**	—
	Voltage drop after 0 cycles:		
	- requirement: ≤ 3,2 mV (mV) ..... :	**1 – 1,25 mV** **2 – 1,24 mV** **3 – 1,25 mV** **4 – 1,35 mV** **5 – 1,13 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**N/A**
	Voltage drop after the 24th cycle:		
	- requirement: 4,8 mV (mV) ..... :	**1 – 1,24 mV** **2 – 1,27 mV** **3 – 1,26 mV** **4 – 1,36 mV** **5 – 1,15 mV**	**P**
	Voltage drop after the 48th cycle		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,23 mV** **2 – 1,26 mV** **3 – 1,26 mV** **4 – 1,35 mV** **5 – 1,15 mV**	**P**
	Voltage drop after the 72nd cycle:		

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Clause	Requirement – Test	Result - Remark	Verdict
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,23 mV** **2 – 1,26 mV** **3 – 1,26 mV** **4 – 1,35 mV** **5 – 1,14 mV**	**P**
	Voltage drop after the 96th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,23 mV** **2 – 1,26 mV** **3 – 1,26 mV** **4 – 1,34 mV** **5 – 1,14 mV**	**P**
	Voltage drop after the 120th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,23 mV** **2 – 1,26 mV** **3 – 1,26 mV** **4 – 1,34 mV** **5 – 1,14 mV**	**P**
	Voltage drop after the 144th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,23 mV** **2 – 1,26 mV** **3 – 1,26 mV** **4 – 1,33 mV** **5 – 1,14 mV**	**P**
	Voltage drop after the 168th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,23 mV** **2 – 1,26 mV** **3 – 1,26 mV** **4 – 1,33 mV** **5 – 1,14 mV**	**P**
	Voltage drop after the 192nd cycle:		

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Clause	Requirement – Test	Result - Remark	Verdict
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,23 mV** **2 – 1,27 mV** **3 – 1,26 mV** **4 – 1,33 mV** **5 – 1,14 mV**	**P**
	Pull-out test		
	force (N) ..... :	**40 N**	—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
8.4.7	Ageing test (for screwless-type terminal blocks only) **type 2006-8033 load side**		
	Maximum ambient temperature (°C) ..... :	**40 °C /**	—
	Rated cross-section rigid or stranded < 10 mm² solid, > 10 mm² stranded (mm²) ..... :	**2,5 mm²**	—
	Test current (A) according 8.4.5 ..... :	**24 A**	—
	Heating cabinet is increased, in each cycle to (°C) ..... :		—
	Test current (A) d.c. for measurement of the voltage drop ..... :	**2,4 A**	—
	Voltage drop after 0 cycles:		
	- requirement: ≤ 3,2 mV (mV) ..... :	**1 – 1,28 mV** **2 – 1,29 mV** **3 – 1,59 mV** **4 – 1,39 mV** **5 – 1,34 mV**	**P**
	If the measured value exceeds 3,2 mV, the voltage drop is determined on each individual clamping unit separately, which shall not exceed 1,6 mV		**N/A**
	Voltage drop after the 24th cycle:		

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Clause	Requirement – Test	Result - Remark	Verdict
	- requirement: 4,8 mV (mV) ..... :	**1 – 1,29 mV** **2 – 1,29 mV** **3 – 1,57 mV** **4 – 1,37 mV** **5 – 1,32 mV**	**P**
	Voltage drop after the 48th cycle		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,29 mV** **2 – 1,29 mV** **3 – 1,56 mV** **4 – 1,37 mV** **5 – 1,32 mV**	**P**
	Voltage drop after the 72nd cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,28 mV** **2 – 1,28 mV** **3 – 1,56 mV** **4 – 1,37 mV** **5 – 1,32 mV**	**P**
	Voltage drop after the 96th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,28 mV** **2 – 1,28 mV** **3 – 1,55 mV** **4 – 1,37 mV** **5 – 1,31 mV**	**P**
	Voltage drop after the 120th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,28 mV** **2 – 1,28 mV** **3 – 1,55 mV** **4 – 1,37 mV** **5 – 1,31 mV**	**P**
	Voltage drop after the 144th cycle:		

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Clause	Requirement – Test	Result - Remark	Verdict
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,28 mV** **2 – 1,28 mV** **3 – 1,55 mV** **4 – 1,36 mV** **5 – 1,31 mV**	**P**
	Voltage drop after the 168th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,28 mV** **2 – 1,28 mV** **3 – 1,55 mV** **4 – 1,36 mV** **5 – 1,31 mV**	**P**
	Voltage drop after the 192nd cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	**1 – 1,28 mV** **2 – 1,28 mV** **3 – 1,55 mV** **4 – 1,36 mV** **5 – 1,31 mV**	**P**
	Pull-out test		
	force (N) ..... :	**50 N**	—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		**P**
8.5	Verification of thermal characteristics is checked by the needle flame test.		**P**
	Before the test, the terminal blocks are stored for 24 h in an atmosphere having a temperature between 15°C and 35°C and a relative humidity between 45% and 75%		**P**
	The flame is applied for 10 s. for insulation walls <1 mm and / or an area < 100 mm², the flame is applied for 5 s.	**5 s**	**P**
	The terminal blocks are considered to have passed the test if the duration of burning is < 30s		**P**

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Clause	Requirement – Test	Result - Remark	Verdict
	in case of ignition. Moreover, the tissue paper on the pinewood board shall not ignite if burning or glowing particles fall from the terminal block.		
8.6			
	Subclause 8.4 of IEC 60947-1 applies with the following addition:		**N/A**
8.6.1	Immunity		**N/A**
	Terminal blocks within the scope of this standard are not sensitive of electromagnetic disturbances and therefore no immunity tests are necessary.		**N/A**
8.6.2	Emission		**N/A**
	Terminal blocks within the scope of this standard do not generate electromagnetic disturbances and therefore no emission tests are necessary.		**N/A**

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Clause	Requirement – Test	Result - Remark	Verdict
Annex A	**vacant**		**N/A**
Annex B	**informative**		**N/A**
	Items subject to agreement between manufacturer and user		
Annex C	**vacant**		**N/A**
Annex D	**ADDITIONAL REQUIREMENTS FOR TEST DISCONNECT TERMINALBLOCKS**		
D5	Product information		
	- service life in number of cycles	**200 x**	**P**
D6.	Normal service, mounting and transport conditions		
	Clause 6 applies.		**P**
D7	Construction and performance conditions		
	Clause 7 applies with the following additions		
D7.1	Constructional requirements		
D7.1.3	Clearances and creepages are not required to be measured over the open disconnect contacts (Gap). However, the rated impulse withstand voltage (Uimp) stated by the manufacturer according to table 13 of IEC 60947-1, without using the altitude correction factor, shall be verified across the open disconnect contacts (gap) (see D.7.2.2)	**4 kV (2006-7114)** **8 kV (2006-1601)** **12 kV (2006-8671)**	**P**
D7.1.7	Disconnect unit		
	For longitudinal and perpendicular disconnection, test disconnect terminal blocks may be equipped with disconnect units, for instance of the following type: - plug - knife	**Slide (2006-7114)** **Knife (2006-1601)** **Knife (2006-8671)**	**P**

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Clause	Requirement – Test	Result - Remark	Verdict
	- slide (with or without busbar)		
	the position of the disconnect unit shall be recognizable in normal use and shall not be changed unintentionally		**P**

D.7.2.2	Dielectric properties		
	Dielectric test, Uimp indicated:		
	- five terminal blocks connected with unfavourable cross-section (mm²) / type / conductor end length tested over open disconnect contacts (gap) (mm) ..... :	**10 mm², rigid, 13 - 15 mm**	—
	- rated impulse withstand voltage (kV) ..... :	**4 kV (2006-7114)** **8 kV (2006-1601)** **12 kV (2006-8671)**	—
	- test Uimp without altitude correction factor (kV) :	**4 kV (2006-7114)** **8 kV (2006-1601)** **12 kV (2006-8671)**	**P**
D.8.4.5	Temperature-rise test		
	Temperature-rise conditions: **(type 2006-7114)**		
	- test current (A) ..... :	**41 A**	—
	- cross-section of the conductor (mm²) ..... :	**6 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- torque disconnect unit (Nm) ..... :	**screwless**	—
	- temperature-rise does not exceed 45 K	**33 K – 40 K**	**P**
	Voltage drop before and after temperature-rise test:		
	- test current (A) d.c. ..... :	**4,1 A**	—

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Clause	Requirement – Test	Result - Remark	Verdict
	- voltage drop (mV) before temperature-rise test not exceeding 1,6 mV times the total of conductor clamping unit and disconnect unit contact points ..... :	**1,21 mV – 1,32 mV**	**P**
	If the measured value exceeds this calculated value, the voltage drop is measured on each individual conductor clamping unit and disconnect unit contact point. it shall not exceed 1,6 mV on any conductor clamping unit and disconnect unit contact point		**N/A**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**1,18 mV – 1,31 mV**	**P**
D.8.4.5	Temperature-rise test		
	Temperature-rise conditions: **(type 2006-7114)**		
	- test current (A) ..... :	**51 A**	—
	- cross-section of the conductor (mm²) ..... :	**10 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- torque disconnect unit (Nm) ..... :	**screwless**	—
	- temperature-rise does not exceed 45 K	**29 K - 38 K**	**P**
	Voltage drop before and after temperature-rise test:		
	- test current (A) d.c. ..... :	**5,7 A**	—
	- voltage drop (mV) before temperature-rise test not exceeding 1,6 mV times the total of conductor clamping unit and disconnect unit contact points ..... :	**1,65 mV – 1,88 mV**	**P**
	If the measured value exceeds this calculated value, the voltage drop is measured on each individual conductor clamping unit and disconnect unit contact point. it shall not exceed 1,6 mV on any conductor clamping unit and disconnect unit contact point		**N/A**

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Clause	Requirement – Test	Result - Remark	Verdict
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**1,62 mV – 1,71 mV**	**P**
D.8.4.5	Temperature-rise test		
	Temperature-rise conditions: **(type 2006-1601)**		
	- test current (A) ..... :	**30 A**	—
	- cross-section of the conductor (mm²) ..... :	**6 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- torque disconnect unit (Nm) ..... :	**screwless**	—
	- temperature-rise does not exceed 45 K	**20 K - 28 K**	**P**
	Voltage drop before and after temperature-rise test:		
	- test current (A) d.c. ..... :	**4,1 A**	—
	- voltage drop (mV) before temperature-rise test not exceeding 1,6 mV times the total of conductor clamping unit and disconnect unit contact points ..... :	**4 x 1,6 mV = 6,4 mV** **3,02 mV – 3,31 mV**	**P**
	If the measured value exceeds this calculated value, the voltage drop is measured on each individual conductor clamping unit and disconnect unit contact point. it shall not exceed 1,6 mV on any conductor clamping unit and disconnect unit contact point		**N/A**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**3,10 mV – 3,35 mV**	**P**
D.8.4.5	Temperature-rise test		
	Temperature-rise conditions: **(type 2006-8671)**		
	- test current (A) ..... :	**30 A**	—
	- cross-section of the conductor (mm²) ..... :	**6 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- torque disconnect unit (Nm) ..... :	**screwless**	—
	- temperature-rise does not exceed 45 K	**21,8 K – 29,3 K**	**P**

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Clause	Requirement – Test	Result - Remark	Verdict
	Voltage drop before and after temperature-rise test:		
	- test current (A) d.c. ..... :	**4,1 A**	—
	- voltage drop (mV) before temperature-rise test not exceeding 1,6 mV times the total of conductor clamping unit and disconnect unit contact points ..... :	**4 x 1,6 mV = 6,4 mV** **3,8 mV – 5,81 mV**	**P**
	If the measured value exceeds this calculated value, the voltage drop is measured on each individual conductor clamping unit and disconnect unit contact point. it shall not exceed 1,6 mV on any conductor clamping unit and disconnect unit contact point		**N/A**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**4,08 mV - 4,62 mV**	**P**
D.8.4.6	Short-time withstand current test **(type 2006-7114)**		
	- rated cross-section of the conductor (mm²) ..... :	**10 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- torque disconnect unit (Nm) ..... :	**screwless**	—
	- test current (A) ..... :	**1200 A**	—
	- duration of the test current (s) ..... :		—
	At the end of the test, continuity shall exist on the test sample assembly and the terminal blocks shall not show any cracking, breakage or other critical damage		**P**
	Voltage drop before and after short-time withstand current test		
	- test current (A) d.c. ..... :	**5,7 A**	—
	- voltage drop (mV) before temperature-rise test not exceeding 1,6 mV times the total of conductor clamping unit and disconnect unit contact points ..... :	**1,15 mV**	**P**

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Clause	Requirement – Test	Result - Remark	Verdict
	If the measured value exceeds this calculated value, the voltage drop is measured on each individual conductor clamping unit and disconnect unit contact point. it shall not exceed 1,6 mV on any conductor clamping unit and disconnect unit contact point		**N/A**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**1,28 mV**	**P**
D.8.4.6	Short-time withstand current test **(type 2006-1601)**		
	- rated cross-section of the conductor (mm²) ..... :	**4 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- torque disconnect unit (Nm) ..... :	**screwless**	—
	- test current (A) ..... :	**480 A**	—
	- duration of the test current (s) ..... :		—
	At the end of the test, continuity shall exist on the test sample assembly and the terminal blocks shall not show any cracking, breakage or other critical damage		**P**
	Voltage drop before and after short-time withstand current test		
	- test current (A) d.c. ..... :	**3,2 A**	—
	- voltage drop (mV) before temperature-rise test not exceeding 1,6 mV times the total of conductor clamping unit and disconnect unit contact points ..... :	**4 x 1,6 mV = 6,4 mV** **3,34 mV**	**P**
	If the measured value exceeds this calculated value, the voltage drop is measured on each individual conductor clamping unit and disconnect unit contact point. it shall not exceed 1,6 mV on any conductor clamping unit and disconnect unit contact point		**N/A**

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Clause	Requirement – Test	Result - Remark	Verdict
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**3,26 mV**	**P**
D.8.4.6	Short-time withstand current test **(type 2006-8671)**		
	- rated cross-section of the conductor (mm²) ..... :	**6 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- torque disconnect unit (Nm) ..... :	**screwless**	—
	- test current (A) ..... :	**720 A**	—
	- duration of the test current (s) ..... :		—
	At the end of the test, continuity shall exist on the test sample assembly and the terminal blocks shall not show any cracking, breakage or other critical damage		**P**
	Voltage drop before and after short-time withstand current test		
	- test current (A) d.c. ..... :	**4,1 A**	—
	- voltage drop (mV) before temperature-rise test not exceeding 1,6 mV times the total of conductor clamping unit and disconnect unit contact points ..... :	**4 x 1,6 mV = 6,4 mV** **3,99 mV**	**P**
	If the measured value exceeds this calculated value, the voltage drop is measured on each individual conductor clamping unit and disconnect unit contact point. it shall not exceed 1,6 mV on any conductor clamping unit and disconnect unit contact point		**N/A**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**3,52 mV**	**P**

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Clause	Requirement – Test	Result - Remark	Verdict
D.8.4.7	Ageing test for test disconnect terminal blocks with screwless-type clamping units **See clause 8.4.7**		
	Maximum ambient temperature (°C) ..... :	40 °C /	—
	Rated cross-section rigid or stranded < 10 mm² solid, > 10 mm² stranded (mm²) ..... :		—
	Test current (A) according D.8.4.5 ..... :		—
	Torque disconnect unit (Nm) ..... :		—
	Heating cabinet is increased, in each cycle to (°C) ..... :		—
	Test current (A) d.c. for measurement of the voltage drop ..... :		—
	Voltage drop after 0 cycles:		
	- requirement: ≤ 1,6 mV (mV) ..... : the voltage drop is determined on each individual clamping unit separately	1 - 2 - 3 - 4 - 5 -	**N/A**
	Voltage drop after the 24th cycle:		
	- requirement: 2,4 mV (mV) ..... :	1 - 2 - 3 - 4 - 5 -	**N/A**
	Voltage drop after the 48th cycle		
	- requirement: ≤ 2,4 mV or 1,5 times the value measured after the 24th cycle, whichever is the lower (mV) ..... :	1 - 2 - 3 - 4 - 5 -	**N/A**
	Voltage drop after the 72nd cycle:		

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Clause	Requirement – Test	Result - Remark	Verdict
	- requirement: ≤ 2,4 mV or 1,5 times the value measured after the 24th cycle, whichever is the lower (mV) ..... :	1 - 2 - 3 - 4 - 5 -	**N/A**
	Voltage drop after the 96th cycle:		
	- requirement: ≤ 2,4 mV or 1,5 times the value measured after the 24th cycle, whichever is the lower (mV) ..... :	1 - 2 - 3 - 4 - 5 -	**N/A**
	Voltage drop after the 120th cycle:		
	- requirement: ≤ 2,4 mV or 1,5 times the value measured after the 24th cycle, whichever is the lower (mV) ..... :	1 - 2 - 3 - 4 - 5 -	**N/A**
	Voltage drop after the 144th cycle:		
	- requirement: ≤ 2,4 mV or 1,5 times the value measured after the 24th cycle, whichever is the lower (mV) ..... :	1 - 2 - 3 - 4 - 5 -	**N/A**
	Voltage drop after the 168th cycle:		
	- requirement: ≤ 2,4 mV or 1,5 times the value measured after the 24th cycle, whichever is the lower (mV) ..... :	1 - 2 - 3 - 4 - 5 -	**N/A**
	Voltage drop after the 192nd cycle:		

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Clause	Requirement – Test	Result - Remark	Verdict
	- requirement: ≤ 2,4 mV or 1,5 times the value measured after the 24th cycle, whichever is the lower (mV) ..... :	1 - 2 - 3 - 4 - 5 -	**N/A**
	Pull-out test		
	force (N) ..... :		—
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		**N/A**
D.8.5.1	Service life **(type 2006-7114)**		
	- rated cross-section of the conductor (mm²) ..... :	**10 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- torque disconnect unit (Nm) ..... :	**screwless**	—
	- number of operating cycles ..... :	**200 x**	—
	Entire test apparatus is stored for 168 h in dry heat at a temperature of 85 °C		**P**
	Voltage drop before and after service life		
	- test current (A) d.c. ..... :	**5,7 A**	—
	- voltage drop (mV) before service life test not exceeding 1,6 mV times the total of conductor clamping unit and disconnect unit contact points :	**1,48 mV – 1,61 mV**	**P**
	If the measured value exceeds this calculated value, the voltage drop is measured on each individual conductor clamping unit and disconnect unit contact point. it shall not exceed 1,6 mV on any conductor clamping unit and disconnect unit contact point		**N/A**
	- voltage drop (mV) after service life test not exceeding 150% of the value measured before service life test ..... :	**1,51 mV – 1,68 mV**	**P**

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Clause	Requirement – Test	Result - Remark	Verdict
D.8.5.1	Service life **(type 2006-1601)**		
	- rated cross-section of the conductor (mm²) ..... :	**6 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- torque disconnect unit (Nm) ..... :	**screwless**	—
	- number of operating cycles ..... :	**200 x**	—
	Entire test apparatus is stored for 168 h in dry heat at a temperature of 85 °C		**P**
	Voltage drop before and after service life		
	- test current (A) d.c. ..... :	**4,1 A**	—
	- voltage drop (mV) before service life test not exceeding 1,6 mV times the total of conductor clamping unit and disconnect unit contact points :	**4 x 1,6 mV = 6,4 mV** **3,18 mV - 3,32 mV**	**P**
	If the measured value exceeds this calculated value, the voltage drop is measured on each individual conductor clamping unit and disconnect unit contact point. it shall not exceed 1,6 mV on any conductor clamping unit and disconnect unit contact point		**N/A**
	- voltage drop (mV) after service life test not exceeding 150% of the value measured before service life test ..... :	**3,21 mV – 3,36 mV**	**P**
D.8.5.1	Service life **(type 2006-8671)**		
	- rated cross-section of the conductor (mm²) ..... :	**6 mm²**	—
	- torque (Nm) ..... :	**screwless**	—
	- torque disconnect unit (Nm) ..... :	**screwless**	—
	- number of operating cycles ..... :	**200 x**	—
	Entire test apparatus is stored for 168 h in dry heat at a temperature of 85 °C		**P**
	Voltage drop before and after service life		
	- test current (A) d.c. ..... :	**4,1 A**	—

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Clause	Requirement – Test	Result - Remark	Verdict
	- voltage drop (mV) before service life test not exceeding 1,6 mV times the total of conductor clamping unit and disconnect unit contact points :	**4 x 1,6 mV = 6,4 mV** **0,53 – 0,93 mV**	**P**
	If the measured value exceeds this calculated value, the voltage drop is measured on each individual conductor clamping unit and disconnect unit contact point. it shall not exceed 1,6 mV on any conductor clamping unit and disconnect unit contact point		**N/A**
	- voltage drop (mV) after service life test not exceeding 150% of the value measured before service life test ..... :	**4 x 1,6 mV = 6,4 mV** **0,56 – 1,39 mV**	**P**
D.8.4.5	Emission		
	Terminal blocks within the scope of this standard are not sensitive of electromagnetic disturbances and therefore no immunity tests are necessary.		**P**
8.6.2	Emission		
	Terminal blocks within the scope of this standard do not generate electromagnetic disturbances and therefore no emission tests are necessary.		**P**

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Clause	Requirement – Test	Result - Remark	Verdict

8.4.2	TABLE: Clearance And Creepage Distance Measurements type 2006-1306					
clearance cl and creepage distance dcr at/of:	Uimp (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
Live parts to adjacent live parts Live parts to support	8000	800	8	12,5	10	> 14
Supplementary information:						

8.4.2	TABLE: Clearance And Creepage Distance Measurements type 2006-1306					
clearance cl and creepage distance dcr at/of:	Uimp (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
Live parts to adjacent live parts Live parts to support	8000	1000 Vac / 1500 Vdc	8	12,5	5 / 8	> 14
Supplementary information:						

8.4.2	TABLE: Clearance And Creepage Distance Measurements type 2006-7114					
clearance cl and creepage distance dcr at/of:	Uimp (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
Live parts to adjacent live parts Live parts to support	4000	250	3	12,5	3,2	> 3,2
Supplementary information:						

8.4.2	TABLE: Clearance And Creepage Distance Measurements type 2006-1601					
clearance cl and creepage distance dcr at/of:	Uimp (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
Live parts to adjacent live parts Live parts to support	8000	800	8	11,25	10	> 11,25
Supplementary information:						

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Clause	Requirement – Test	Result - Remark	Verdict

8.4.2	TABLE: Clearance And Creepage Distance Measurements type 2006-8601					
clearance cl and creepage distance dcr at/of:	Uimp (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
Live parts to adjacent live parts Live parts to support	12000	1000 Vac 1500 Vdc	14	14,68	20	> 25
Supplementary information:						

8.4.2	TABLE: Clearance And Creepage Distance Measurements type 2006-8033					
clearance cl and creepage distance dcr at/of:	Uimp (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
Live parts to adjacent live parts Live parts to support	8000	800	8	11,8	10	11,8
Supplementary information:						

8.4.3	TABLE: Dielectric Strength types 2006-1306, 2006-1601, 2006-8033	
Test voltage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Terminal block and adjacent terminal block	2000 V	No
Terminal block and mounting rail	2000 V	No
Supplementary information:		

8.4.3	TABLE: Dielectric Strength types 2006-1306	
Test voltage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Terminal block and adjacent terminal block	2200 Vac / 3820 Vdc	No
Terminal block and mounting rail	2200 Vac / 3820 Vdc	No
Supplementary information:		

8.4.3	TABLE: Dielectric Strength type 2006-7114	
Test voltage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Terminal block and adjacent terminal block	1500 V	No
Terminal block and mounting rail	1500 V	No

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Clause	Requirement – Test	Result - Remark	Verdict

Supplementary information:

8.4.3	TABLE: Dielectric Strength type 2006-8601	
Test voltage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Terminal block and adjacent terminal block	3820 V	No
Terminal block and mounting rail	3820 V	No
Supplementary information:		

8.4.5	TABLE: Heating Test type 2006-8601		
	Test voltage (V):	< 3 V	—
	Ambient (^{o}C):	22,1 °C	—

Thermocouple Locations	max. temperature-rise measured, (K)	max. temperature-rise limit, (K)
CU 1 upper level	27,3	45
CU 2 upper level	28,6	45
CU 3 upper level	25,9	45
CU 4 upper level	26,8	45
CU 5 upper level	21,8	45
Fuse knife	29,3	45
Supplementary information: CU = clamping unit		

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Clause	Requirement – Test	Result - Remark	Verdict

8.4.5	TABLE: Heating Test type 2006-8033		
	Test voltage (V):	< 5 V	—
	Ambient (^{o}C):.....	22,2 °C	—

Thermocouple Locations	max. temperature-rise measured, (K)	max. temperature-rise limit, (K)
CU 1 supply side	26,8	45
CU 2 supply side	29,6	45
CU 3 supply side	29,9	45
CU 4 supply side	29,5	45
CU 5 supply side	26,5	45
CU 1 load side	30,2	45
CU 2 load side	31,7	45
CU 3 load side	32,4	45
CU 4 load side	30,5	45
CU 5 load side	22,5	45
CU 1 load side	24,9	45
CU 2 load side	24,9	45
CU 3 load side	25,3	45
CU 4 load side	24,1	45
CU 5 load side	20,0	45

Supplementary information: CU = clamping unit

41 A (6 mm²) supply side

17,5 A + 17,5 A + 6 A
(1,5 mm²) load side

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Clause	Requirement – Test	Result - Remark	Verdict

8.4.5	**TABLE: Heating Test type 2006-8033**		
	Test voltage (V):	< 5 V	—
	Ambient (°C):	22,2 °C	—

Thermocouple Locations	max. temperature-rise measured, (K)	max. temperature-rise limit, (K)
CU 1 supply side	34,8	45
CU 2 supply side	43,4	45
CU 3 supply side	40,5	45
CU 4 supply side	39,9	45
CU 5 supply side	34,5	45
CU 1 load side	32,2	45
CU 2 load side	36,4	45
CU 3 load side	37,9	45
CU 4 load side	35,7	45
CU 5 load side	33,7	45
CU 1 load side	28,5	45
CU 2 load side	33,9	45
CU 3 load side	36,8	45
CU 4 load side	35,3	45
CU 5 load side	28,1	45

Supplementary information: CU = clamping unit

41 A (6 mm²) supply side

24 A + 17 A
(2,5 mm²) load side

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Clause	Requirement – Test	Result - Remark	Verdict

8.4.5	**TABLE: Heating Test type 2006-8033**		
	Test voltage (V):	< 5 V	—
	Ambient (^{o}C):	22,11 °C	—

Thermocouple Locations	max. temperature-rise measured, (K)	max. temperature-rise limit, (K)
CU 1 supply side	31,4	45
CU 2 supply side	39,3	45
CU 3 supply side	36,4	45
CU 4 supply side	37,6	45
CU 5 supply side	28,7	45
CU 1 load side	35,0	45
CU 2 load side	37,3	45
CU 3 load side	36,2	45
CU 4 load side	33,6	45
CU 5 load side	28,2	45
CU 1 load side	29,9	45
CU 2 load side	32,2	45
CU 3 load side	30,8	45
CU 4 load side	29,2	45
CU 5 load side	23,4	45

Supplementary information: CU = clamping unit

57 A (10 mm²) supply side

3 x 17,5 A + 4,5 A
(1,5 mm²) load side

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict

8.4.5	**TABLE: Heating Test type 2006-8033**		
	Test voltage (V):	< 5 V	—
	Ambient (^{o}C):	22,11 °C	—

Thermocouple Locations	max. temperature-rise measured, (K)	max. temperature-rise limit, (K)
CU 1 supply side	30,2	45
CU 2 supply side	36,3	45
CU 3 supply side	35,1	45
CU 4 supply side	35,2	45
CU 5 supply side	31,1	45
CU 1 load side	31,1	45
CU 2 load side	33,2	45
CU 3 load side	35,5	45
CU 4 load side	35,1	45
CU 5 load side	31,2	45
CU 1 load side	25,7	45
CU 2 load side	28,0	45
CU 3 load side	30,2	45
CU 4 load side	29,4	45
CU 5 load side	24,2	45

Supplementary information: CU = clamping unit

57 A (10 mm²) supply side

24 A + 24 A + 9 A
(2,5 mm²) load side

Remarks

Product data		
Product	:	terminal blocks
Trade name(s)	:	WAGO
Type(s)/model(s)	:	TOPJOB S 2006
Material	:	thermoplastic material
Method of mounting	:	for mounting on top hat rail 35 mm
Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Conventional free air thermal current	:	41 A (6 mm²) 57 A (10 mm²)
Rated insulation voltage	:	800 V (pollution degree 3) 1000 Vac / 1500 Vdc (pollution degree 2)
Rated impulse withstand voltage	:	8 kV
Type	:	2006 with suffixes -1201, -1202, -1203, -1204, -1205, -1206, -1208, -1209
Description	:	2 conductor through terminal block, with screwless-type clamping units, 1-pole
Type	:	2006-1207
Description	:	2 conductor earth terminal block, with screwless-type clamping units terminals, 1-pole
Type	:	2006 with suffixes -1301, -1302, -1303, 1304, -1305, -1306, -1308, -1309
Description	:	3 conductor through terminal block, with screwless-type clamping units, 1-pole

Remarks

Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Conventional free air thermal current	:	41 A (6 mm²) 51 A (10 mm²)
Rated insulation voltage	:	250 V (pollution degree 3)
Rated impulse withstand voltage	:	4 kV
Type	:	2006-7114
Description	:	1 conductor N-disconnect terminal block, with screwless clamping units and 1 connection for busbar (10 x 3 mm), 1-pole
Type	:	2006-7111
Description	:	1 conductor power distribution disconnect terminal, with screwless clamping units and 1 connection for busbar (10 x 3 mm), 1-pole
Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Conventional free air thermal current	:	30 A (6 mm²) 30 A (10 mm²)
Rated insulation voltage	:	800 V (pollution degree 3)
Rated impulse withstand voltage	:	8 kV
Type	:	2006 with suffixes -1601, -1602, 1603, -1604
Description	:	2 conductor through terminal block (permanently closed disconnect part), with screwless type clamping units, 1-pole
Type	:	2006 with suffixes -1661, -1662, -1663, -1664
Description	:	2 conductor carrier terminal block, with screwless-type clamping units, 1-pole

Remarks

Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Conventional free air thermal current	:	30 A (6 mm²) 30 A (10 mm²)
Rated insulation voltage	:	800 V (pollution degree 3)
Rated impulse withstand voltage	:	8 kV
Type	:	2006 with suffixes -1671, -1672, -1673, -1674, -1675
Description	:	2 conductor disconnect terminal block, with screwless type terminals, 1-pole
Type	:	optional suffixes for disconnect terminal blocks .../400-0000
Description	:	disconnect knife rotated by 180°
Type	:	.../401-0000
Description	:	with mechanical locking element
Type	:	2006-... with suffixes -1671, -1675 with additional suffixes /1000-848 provided with LED 24 V /1000-849 provided with LED 48 V /1000-850 provided with neon light 120 V /1000-851 provided with neon light 230 V
Description	:	ground conductor disconnect terminal block, with screwless type terminals, 2-poles

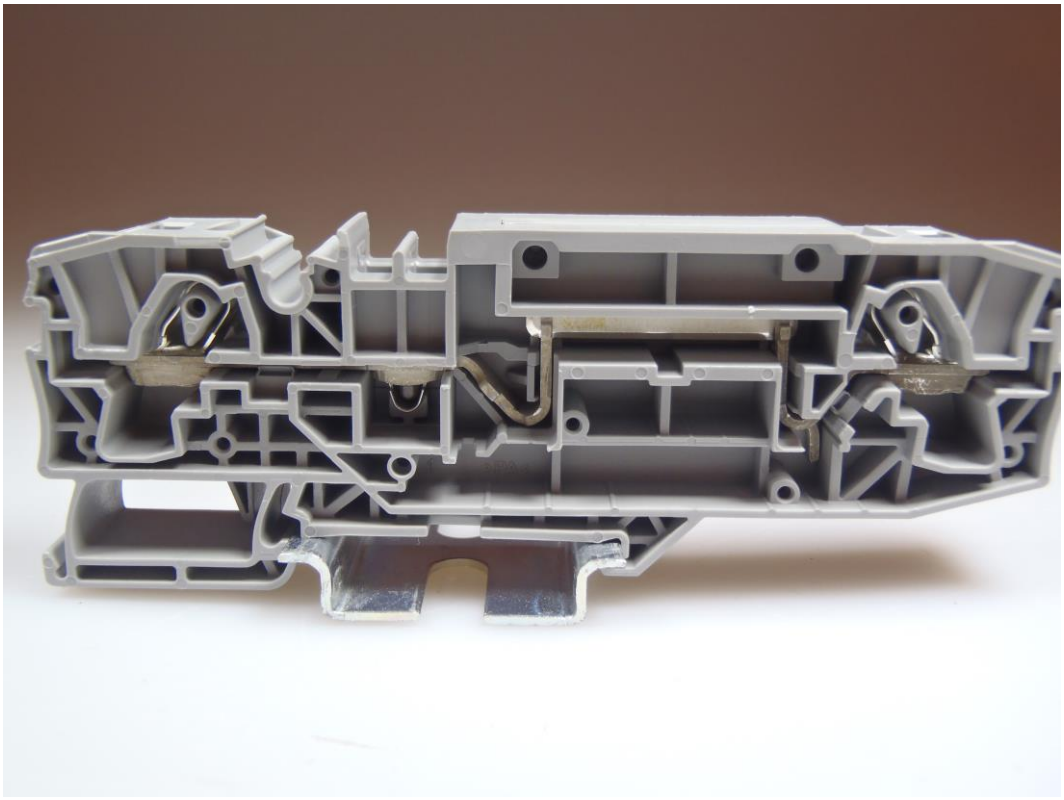
Remarks

Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
Conventional free air thermal current	:	30 A (6 mm²) 30 A (10 mm²)
Rated insulation voltage	:	1000 Vac / 1500 Vdc (pollution degree 3)
Rated impulse withstand voltage	:	12 kV
Type	:	2006 with suffixes -8601, -8604
Description	:	2 conductor through terminal block, with screwless type terminals, provided with disconnect part, which cannot be operated
Type	:	2006 with suffixes -8664, -8661
Description	:	2 conductor carrier terminal block, with screwless type terminals, 1 pole
Type	:	2006 with suffixes -8671, -8674
Description	:	2 conductor disconnect terminal block, with screwless type terminals, 1 pole

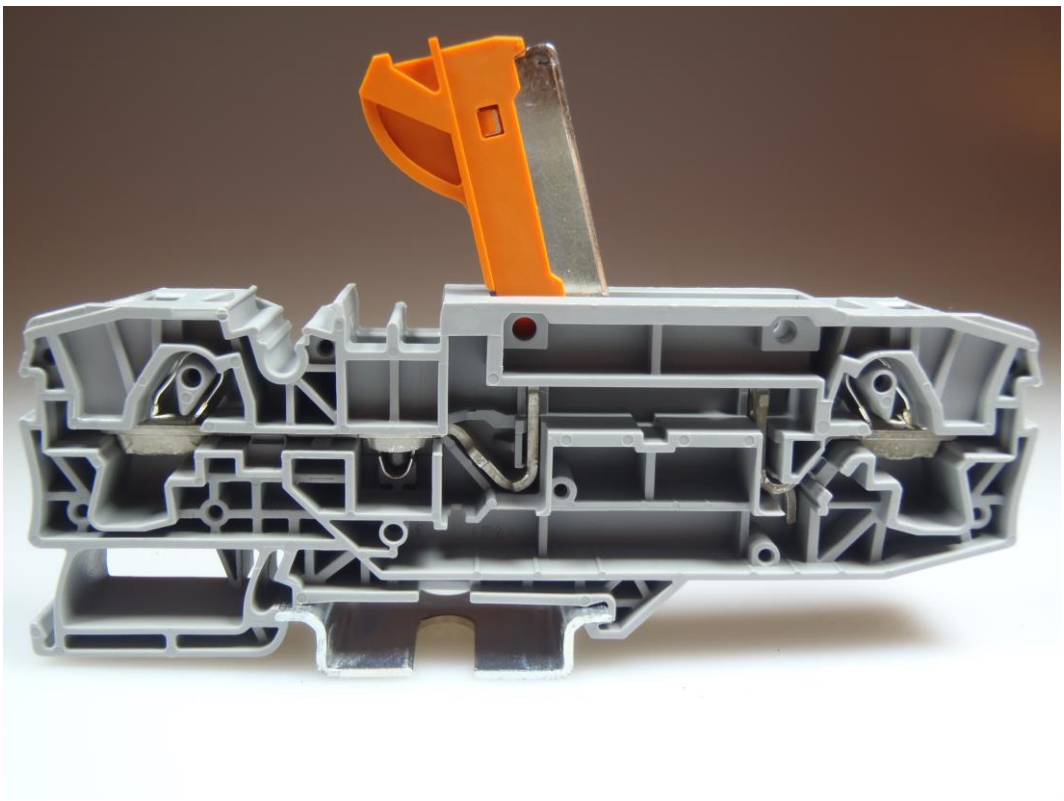
Rated cross section	:	6 mm² / 10 mm² rigid and flexible (supply side) 1,5 mm² / 2,5 mm² rigid and flexible (load side)
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible (supply side) 0,25 mm² - 2,5 mm² rigid and flexible (load side)
Conventional free air thermal current	:	4 1 A (6 mm²) / 57 A (10 mm²) (supply side) 17,5 A (1,5 mm²) / 24 A (2,5 mm²) (load side)
Rated insulation voltage	:	8 00 V (pollution degree 3)
Rated impulse withstand voltage	:	8 kV
Type	:	2006 with suffixes -8031, , -8031/0000-0053, -8031/0000-xxxx, -8032, -8033, -8034, -8035, -8036, -8039
Description	:	distribution terminal block, with screwless type clamping units, supply side one clamping unit, load side six clamping units

Article numbers may be followed by optional suffix numbers e.g. 2006-xxxx/xxxx-xxxx/xxxx-xxxx (up to 40 digits) where "x" may be any number (including characters) to represent customer numbers, printing variants, colour variants and other mechanical variations, given for a specific end-use purpose and not affecting the electrical properties.

Remarks

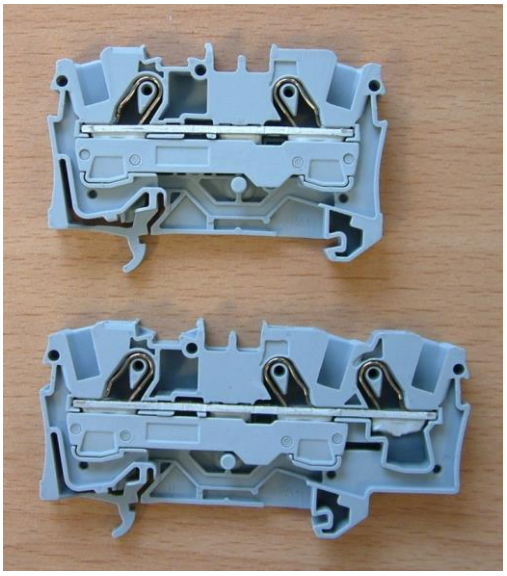


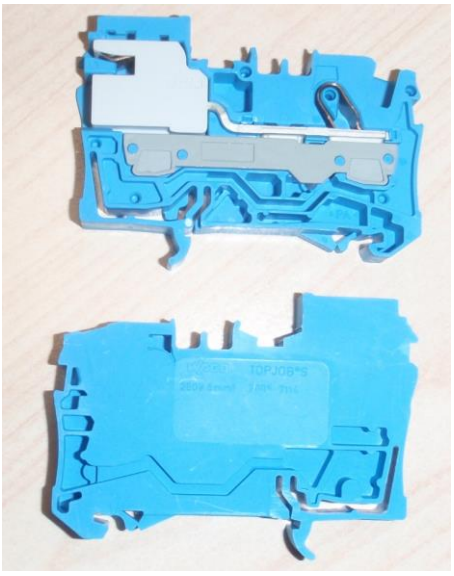
Type 2006-8601



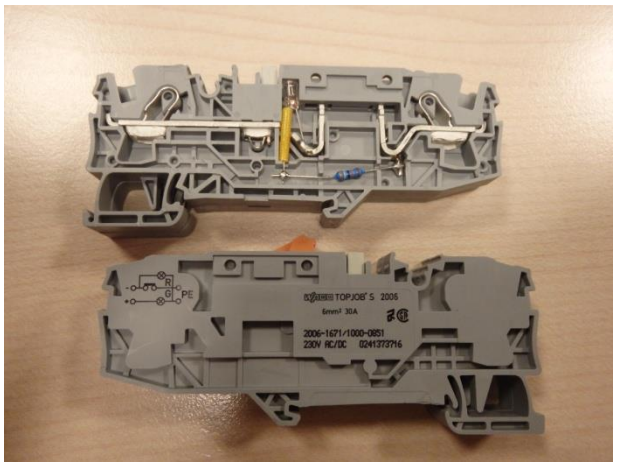
Type 2006-8671

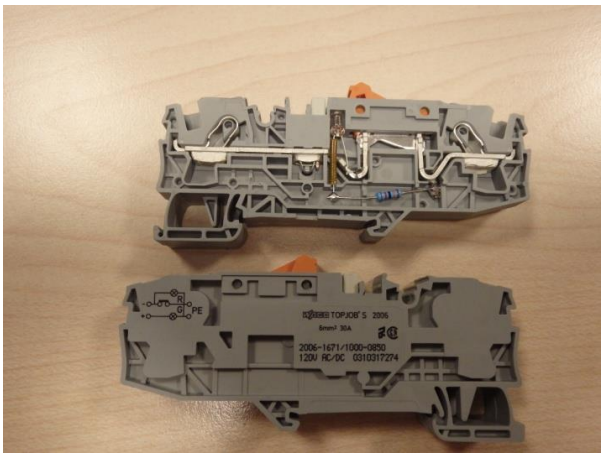
Remarks

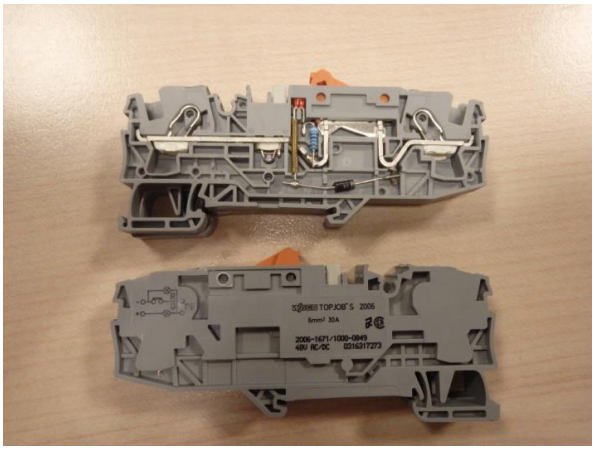




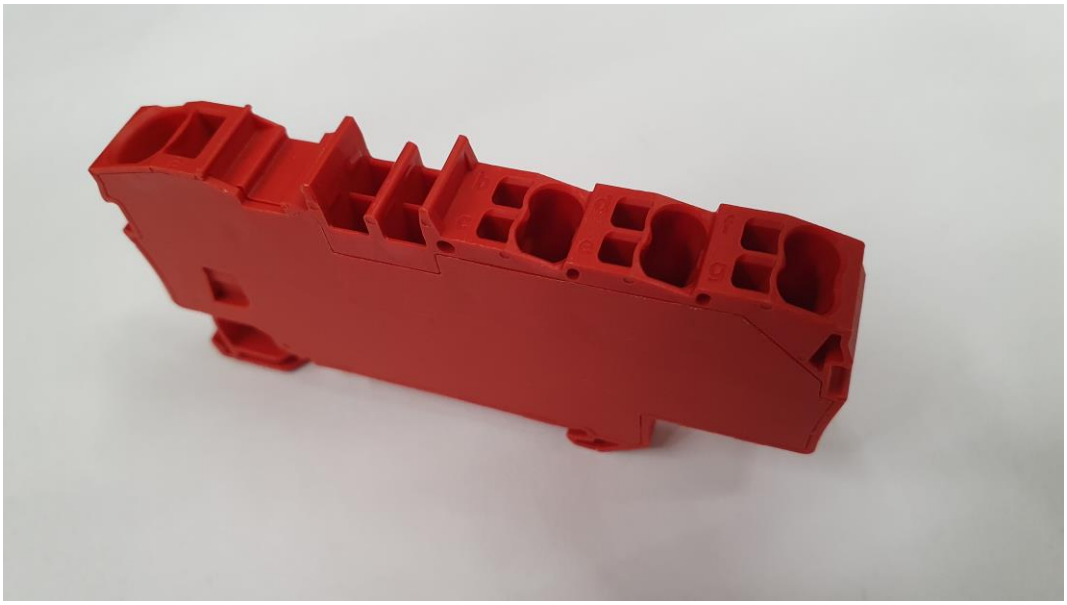

TOPJOB S 2006
2006-1671/0400-0000
0028366723


TOPJOB S 2006
6mm² 30A
2006-1671/1000-0851
230V AC/DC 0241373716

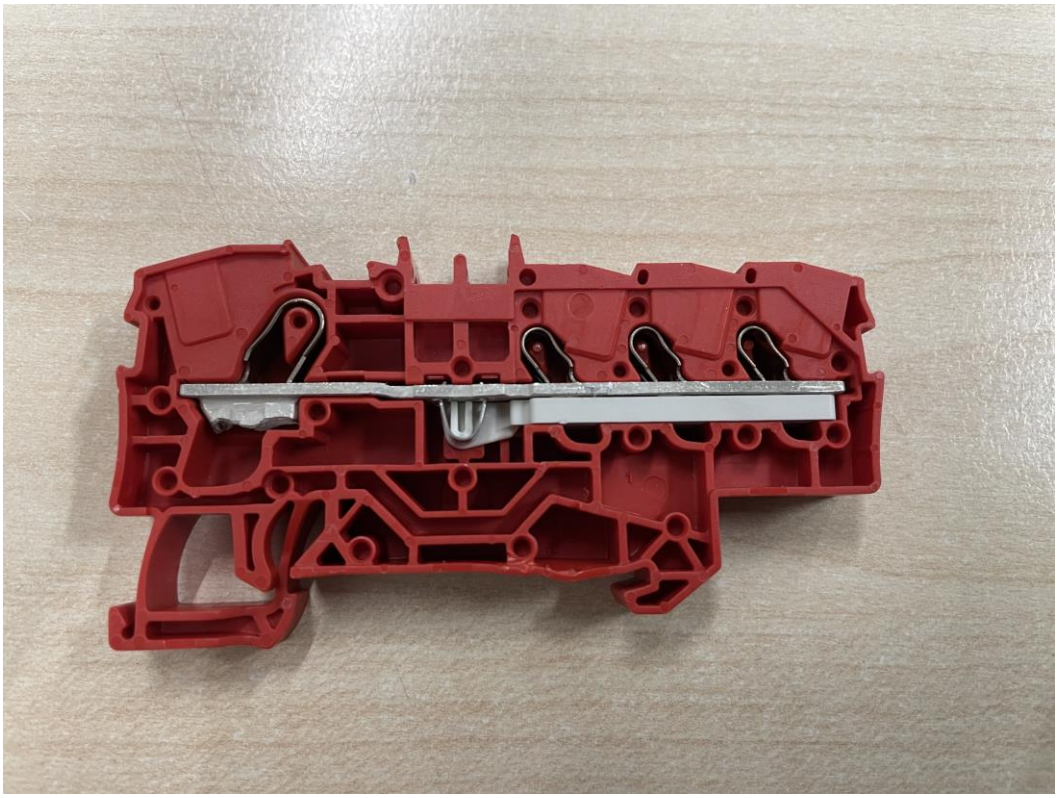

TOPJOB S 2006
6mm² 30A
2006-1671/1000-0850
120V AC/DC 0310317274


TOPJOB S 2006
6mm² 30A

Remarks



Type 2006-8033



Type 2006-8033