NOTIFICATION OF TEST RESULTS

Issued to:	WAGO GmbH & Co. KG Hansastrasse 27, 32423 Minden/Westfalen, Germany
For the product:	Terminal block for copper conductors
Trade name:	WAGO
Type/Model:	TOPJOB S 2006
Manufactured by:	WAGO GmbH & Co. KG Hansastrasse 27, 32423 Minden/Westfalen, Germany
Ratings:	Max 10 mm², max 57 A, max. 1000 Vac / 1500 Vdc, max. 12 kV
Additional information:	This NTR replaces NTR NL-7925 issued on 4 may 2022, due to the fact of a type error in the type designation. See annex for factory locations

A sample of the product has been tested and found to be in conformity with the current HD/EN and equivalent national standard

EN 60947-7-1:2009, EN 60947-7-2:2009, EN 60947-7-3:2009

As shown in the Test Report

2256631.53, 2221172.52, 2221172.53, 2262613.50/A1

This Notification of Test Results is the result of testing a sample of the product submitted, in accordance with the provisions of the relevant specific standard.

This Notification of Test Results has been established by a body, which participates in the CENELEC Certification Agreement (CCA) of 11th September 1973 as amended on 29th March 1983. Any other body participating in the CCA will take this Notification as a basis for granting a national mark of conformity or a national approval as specified in the CCA, as long as the standard referred to above is still in force in the country of that body.

Arnhem, 8 June 2022 Number: NTR NL 7925/1

DEKRA Certification B.V.

H.R.M. Barends
Certification Manager

© Integral publication of this attestation and adjoining reports is allowed

CCA
CENELEC CERTIFICATION AGREEMENT
ACCORD DE CERTIFICATION DU CENELEC

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem, The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-product-safety.com Company registration 09085396

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Factory locations

Wago Elwag sp.z.o.o.
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

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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, 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

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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

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Rated cross section	:	6 mm² / 10 mm² rigid and flexible
Rated connecting capacity	:	0,5 mm² - 10 mm² rigid and flexible
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

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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)
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 clamping units, 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

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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 arrangement: 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) 10 A (10 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

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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

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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

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.

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. ..... :	**2262613.51/ A1**
Date of issue ..... :	**2022-05-20**
Total number of pages ..... :	**51**
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.
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Test item description..... :	**Terminal blocks for copper conductors**
Trade Mark..... :	
Manufacturer..... :	**WAGO GmbH & Co. KG**
Model/Type reference..... :	**TOPJOB S 2206 with Push Button**
Ratings..... :	**800 V (pollution degree 3),** **1000 Vac / 1500 Vdc (pollution degree 2), 8 kV,** **1,5 mm² / 2,5 mm² / 6 mm² / 10 mm²,** **17,5 A / 24 A / 41 A / 57 A**

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 2224323.50 Through terminal blocks: Complete examination All tests are carried out on 2206-1301 unless otherwise stated.	
The following tests are carried out under CTF3 - Testing for damage to and accidental loosening of conductors of a terminal block (flexion test), clause 8.3.3.2 - Pull-out test, clause 8.3.3.3 - Verification of rated cross-section and rated connecting capacity, clause 8.3.3.4 - verification of clearances and creepage distances, clause 8.4.2 - Dielectric test, clause 8.4.3 - Temperature-rise test, clause 8.4.5) - Short-time withstand current test, clause 8.4.6 - Verification of thermal characteristics, clause 8.5	**WAGO GmbH & Co. KG** **Hansastrasse 27, 32423 Minden/Westfalen, Germany**
The following tests are carried out at DEKRA - Product information, Clause 5 - Constructional requirements, clause 7.1 - Attachment of the terminal block on its support, clause 8.3.2 - Mechanical strength of clamping units, clause 8.3.3.1 - Ageing test for screwless-type terminal blocks only, clause 8.4.7	**DEKRA Certification B.V.** **Meander 1051, 6825 MJ Arnhem** **The Netherlands**

Project 2256631.58 This Test report replaces Test Report 2224323.50 issued on 2018-04-20, due to the fact that the rated voltage of 1000 Vac / 1500 Vdc is added. The following tests are carried out on 2206-1201, 2206-1301: - - Clause 8.4.2 - Clause 8.4.3 Further are added additional factory locations.	**DEKRA Certification B.V.** **Meander 1051, 6825 MJ Arnhem** **The Netherlands**
Project 2262613.51 This Test report replaces Test Report 2256631.58 issued on 2021-07-06, due to the fact that types 2206-80xx are added. supply side one time 6 mm²/10 mm², 41 A/57 A identical to 2206-12xx and 2206-13xx (this TRF) load side 6 times 1,5 mm²/2,5 mm², 17,5 A/24 A identical to 2201-12xx and 2201-13xx, see Test Report 2245473.50 issued on 2020-03-26 The tests which are carried out on 2206-8033 are laid down in the table on page 9. All other test results for TOPJOB S 2006 series terminals are taken from Test Report 2256631.58. Further is added additional factory location.	**DEKRA Certification B.V.** **Meander 1051, 6825 MJ Arnhem** **The Netherlands**
Project 2262613.51/A1 This Test report replaces Test Report 2262613.51 issued on 2022-03-24, due to the fact of a type error in type 2206-8031/0000-0053, 2206-8031/0000-xxxx	

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.



TOPJOB S 2206

IEC 60947-7-1

800 V 6mm²

2206-1301

Test item particulars ..... :	
Classification of installation and use ..... :	
Supply Connection ..... :	
Particulars: test item vs. test requirements	
- method of fixing ..... :	**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 2206-803x:** **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 or flexible**
- rated insulation voltage (U_i) ..... :	**800 V, 1000 Vac / 1500 Vdc (see page 50 and 51)**
- rated impulse withstand voltage (U_{imp}) ..... :	**8 kV**
- Conventional free air thermal current (I_{th}) ..... :	**41 A (6 mm²)** **57 A (10 mm²)** **Type 2206-803x:** **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 ..... :	**2018-02 / 2021-05 / 2022-1**
Date (s) of performance of tests ..... :	**2018-02 / 2018-03 / 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.

Projects performed under the IECEE CB-Scheme CTF procedure, are fully in line with the procedures and requirements of the IECEE CB-Scheme, but do not fall under DEKRA Netherland's laboratory accreditation, according to ISO/IEC 17025, by the Dutch Accreditation Council.

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 page 50 - 51.

Clauses	description	Type / configuration [2)]			
		2206-8033 Supply 6 mm² Load side 1.5 mm²	2206-8033 Supply 6 mm² Load side 2.5 mm²	2206-8033 Supply 10 mm² Load side 1.5 mm²	2206-8033 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 2206-12xx and 2206-13xx

2 not checked cells:
load side covered by this report
supply side covered by 2201-12xx and 2201-13xx as laid down in Test Report 2245473.50 issued on 2020-03-26

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 2206**	**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**	**P**
	- rated cross-section	**Type 2206-803x:** **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	**in catalogue** **0,5 – 10 mm²**	**P**
	- rated insulation voltage (Ui)	**800 V, 1000 V (see page 36)**	**P**
	- rated impulse withstand voltage (Uimp)	**in catalogue** **8 kV**	**P**
	- conventional free air thermal current (Ith)	**Type 2206-803x:** **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)**	**P**
	- service conditions if different from those of Cl. 6.		**N**

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		**P**
7.1.4	Terminal identification and marking:		
	- terminals intended exclusively for the neutral conductor		**N/A**
	- 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)		**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** **rigid or flexible**	**P**
8	**TESTS**		
8.3	Verification of mechanical characteristics		
8.3.2	Attachment of the terminal block on its support **Type 2206-1301, 2206-8033**		
	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		
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 ..... :	**1,91 mV and 1,93 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 :	**1,94 mV and 1,81 mV**	**P**
	minimum cross-section of a flexible conductor (mm²) ..... :	**0,5 mm²**	—
	test current (A) d.c. ..... :	**0,6 A**	—
	voltage drop (mV) before mechanical strength test not exceeding 3,2 mV ..... :	**0,87 mV and 0,69 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 ..... :	**0,91 mV and 0,71 mV**	**P**
8.3.3.1	Test of mechanical strength of clamping units **Type 2206-1301**		
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	**5 times inserted and removed**	**P**

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	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 ..... :	**2,35 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 :	**2,62 mV and 2,54 mV**	**P**
	minimum cross-section of a flexible conductor (mm²) ..... :	**0,5 mm²**	—
	test current (A) d.c. ..... :	**0,6 A**	—
	voltage drop (mV) before mechanical strength test not exceeding 3,2 mV ..... :	**0,82 mV and 0,74 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 ..... :	**0,87 mV- 0,84 mV**	**P**
8.3.3.2	Testing for damage to and accidental loosening of conductors of a terminal block (flexion test) **Type 2206-1301**		
	conductor of the smallest cross-section (mm²) ... :	**0,5 mm² rigid and flexible**	—
	number of conductors of the smallest cross-section ..... :	**1**	—
	torque (Nm) ..... :	**-**	—
	diameter of bushing hole (mm) ..... :	**6,5 mm**	—
	height between the equipment and the platen (mm) ..... :	**260 mm**	—

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	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) ..... :	**30 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) ..... :	**6 mm² rigid and flexible**	—
	number of conductors of the rated cross-section :	**1**	—
	torque (Nm) ..... :	**-**	—
	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) ..... :	**10 mm² rigid and flexible**	—
	number of conductors of the rated cross-section :	**1**	—
	torque (Nm) ..... :	**-**	—
	diameter of bushing hole (mm) ..... :	**9,5 mm**	—
	height between the equipment and the platen (mm) ..... :	**280 mm**	—
	mass at the conductor(s) (kg) ..... :	**2,0 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 cross-section (mm²) ..... :	**10 mm² rigid and flexible**	—
	number of conductors of the largest cross-section ..... :	**1**	—
	torque (Nm) ..... :	**-**	—
	diameter of bushing hole (mm) ..... :	**9,5 mm**	—
	height between the equipment and the platen (mm) ..... :	**280 mm**	—
	mass at the conductor(s) (kg) ..... :	**2,0 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		

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	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 2206-8033**		
	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**	—
	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**	—

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

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	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**	—
	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) ..... :		—

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	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		
	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		
	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** **11,65 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**	—

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Clause	Requirement – Test	Result - Remark	Verdict
	- measured creepage distances (mm) ..... :	**11,65 mm**	—
8.4.2.3	Creepage distances:		
	- 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 / 8 mm**	—
	- measured creepage distances (mm) ..... :	**11,65 mm**	—
8.4.2	Verification of clearances and creepage distances **(type 2206-8033)**		
	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**	—
	- 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 **(Type 2206-1201, 2206-1301)**		
	Dielectric test, Uimp indicated:		

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	- five terminal blocks connected with unfavourable cross-section (mm²) / type / conductor end length (mm) ..... :	**10 mm², flexible, 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, flexible, 13 – 15 mm**	—
	- rated insulation voltage (V) ..... :	**800 V**	—
	- test voltage for 60 sec (V) ..... :	**2000 V**	**P**
	- five terminal blocks connected with unfavourable cross-section (mm²) / type / conductor end length (mm) :	**10 mm², flexible, 13 – 15 mm**	—
	- 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 2206-8033)**		
	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**	—

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	- test voltage for 60 sec (V) ..... :	**2000 V**	**P**
8.4.5	Temperature-rise test		
	Temperature-rise conditions:		
	- test current (A) ..... :	**41 A**	—
	- cross-section of the conductor (mm²) ..... :	**6 mm²**	—
	- torque (Nm) ..... :	**-**	—
	- temperature-rise does not exceed 45 K	**43 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 3,2 mV ..... :	**2,04 mV – 2,33 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 ..... :	**1,97 mV – 2,31 mV**	**P**
8.4.5	Temperature-rise test		
	Temperature-rise conditions:		
	- test current (A) ..... :	**57 A**	—
	- cross-section of the conductor (mm²) ..... :	**10 mm²**	—
	- torque (Nm) ..... :	**-**	—
	- temperature-rise does not exceed 45 K	**44 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 ..... :	**1,95 mV – 2,12 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**

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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 ..... :	**1,96 mV – 2,20 mV**	**P**
8.4.5	Temperature-rise test **(type 2206-8033)**		
	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	**23,4 K - 32,5 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	**1,80 mV – 2,08 mV**	**P**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**1,83 mV – 2,03 mV**	**P**
8.4.5	Temperature-rise test **(type 2206-8033)**		
	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**	—

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	- temperature-rise does not exceed 45 K	**24,5 K - 37,5 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 + 1,75 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	**1,94 mV – 2,05 mV**	**P**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**2,01 mV – 2,16 mV**	**P**
8.4.5	Temperature-rise test **(type 2206-8033)**		
	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	**23,1 K - 37,2 K**	**P**
	Voltage drop before and after temperature-rise test:		
	- 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 – 1,64 mV**	**P**

IEC 60947-7-1			
Clause	Requirement – Test	Result - Remark	Verdict
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**1,51 mV – 1,62 mV**	**P**
8.4.5	Temperature-rise test **(type 2206-8033)**		
	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	**22,3 K - 39,9 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	**1,93 mV – 2,39 mV**	**P**
	- voltage drop (mV) after temperature-rise test not exceeding 150% of the value measured before temperature-rise test ..... :	**2,03 mV – 2,33 mV**	**P**
8.4.6	Short-time withstand current test		
	- rated cross-section of the conductor (mm²) ..... :	**6 mm²**	—
	- torque (Nm) ..... :	**-**	—
	- test current (A) ..... :	**720 A**	—
	- duration of the test current (s) ..... :	**1 s**	—

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Clause	Requirement – Test	Result - Remark	Verdict
	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 short-time withstand current test not exceeding 3,2 mV ..... :	**1,82 mV – 2,06 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 ..... :	**1,75 mV – 1,97 mV**	**P**
8.4.6	Short-time withstand current test		
	- rated cross-section of the conductor (mm²) ..... :	**10 mm²**	—
	- torque (Nm) ..... :	**-**	—
	- 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 ..... :	**2,14 mV – 2,57 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**

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Clause	Requirement – Test	Result - Remark	Verdict
	- voltage drop (mV) after short-time withstand current test not exceeding 150% of the value measured before short-time withstand current test ..... :	**1,84 mV – 2,14 mV**	**P**
8.4.6	Short-time withstand current test **(type 2206-8033)**		
	- 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**	—
	- 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: 2,64 mV** **6 mm² to second 1,5 mm²: 2,55 mV** **6 mm² to third1,5 mm²: 2,57 mV** **6 mm² to fourth 1,5 mm²: 2,69 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: 2,59 mV** **6 mm² to second 1,5 mm²: 2,59 mV** **6 mm² to third1,5 mm²: 2,57 mV** **6 mm² to fourth 1,5 mm²: 2,63 mV**	**P**
8.4.6	Short-time withstand current test **(type 2206-8033)**		
	- rated cross-section of the conductor (mm²) ..... :	**10 mm² supply side** **4 x 2,5 mm² load side**	—
	- torque (Nm) ..... :	**screwless**	—

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Clause	Requirement – Test	Result - Remark	Verdict
	- 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. ..... :	**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: 2,97 mV** **10 mm² to second 2,5mm²:3,04 mV** **10 mm² to third 2,5 mm²: 2,97 mV** **10 mm² to fourth 2,5 mm²: 3,08 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: 3,00 mV** **10 mm² to second 2,5mm²: 3,01 mV** **10 mm² to third 2,5 mm²: 2,99 mV** **10 mm² to fourth 2,5 mm²: 3,09 mV**	**P**
8.4.7	Ageing test (for screwless-type terminal blocks only)		
	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 ..... :		—
	Heating cabinet is increased, in each cycle to (°C) ..... :	40° C	—
	Test current (A) d.c. for measurement of the voltage drop ..... :	**4,1 A**	—
	Voltage drop after 0 cycles:		

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Clause	Requirement – Test	Result - Remark	Verdict
	- requirement: ≤ 3,2 mV (mV) ..... :	1 – **2,29 mV** 2 - **1,98 mV** 3 - **2,05 mV** 4 - **1,93 mV** 5 - **2,46 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 – **2,36 mV** 2 - **2,06 mV** 3 - **2,09 mV** 4 - **2,06 mV** 5 - **2,49 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 – **2,36 mV** 2 - **2,06 mV** 3 - **2,08 mV** 4 - **2,11 mV** 5 - **2,50 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 – **2,36 mV** 2 - **2,06 mV** 3 - **2,07 mV** 4 - **2,30 mV** 5 - **2,64 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 – **2,28 mV** 2 - **1,98 mV** 3 - **2,06 mV** 4 - **2,20 mV** 5 - **2,78 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 – **2,28 mV** 2 - **1,97 mV** 3 - **2,06 mV** 4 - **2,21 mV** 5 - **2,85 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 – **2,28 mV** 2 - **1,97 mV** 3 - **2,06 mV** 4 - **2,21 mV** 5 - **2,85 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 – **2,28 mV** 2 - **1,97 mV** 3 - **2,05 mV** 4 - **2,21 mV** 5 - **2,91 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 – **2,28 mV** 2 - **1,97 mV** 3 - **2,04 mV** 4 - **2,22 mV** 5 - **2,93 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)		
	Maximum ambient temperature (°C) ..... :	40 °C /	—
	Rated cross-section rigid or stranded < 10 mm² solid, > 10 mm² stranded (mm²) ..... :	**10 mm²**	—

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Clause	Requirement – Test	Result - Remark	Verdict
	Test current (A) according 8.4.5 ..... :		—
	Heating cabinet is increased, in each cycle to (°C) ..... :	40° C	—
	Test current (A) d.c. for measurement of the voltage drop ..... :	**5,7 A**	—
	Voltage drop after 0 cycles:		
	- requirement: ≤ 3,2 mV (mV) ..... :	1 – **2,82 mV** 2 - **2,31 mV** 3 - **2,22 mV** 4 - **2,32 mV** 5 - **2,92 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 – **3,29 mV** 2 - **2,42 mV** 3 - **2,33 mV** 4 - **2,43 mV** 5 - **3,10 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 – **3,31 mV** 2 - **2,42 mV** 3 - **2,33 mV** 4 - **2,42 mV** 5 - **3,02 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 – **3,33 mV** 2 - **2,42 mV** 3 - **2,33 mV** 4 - **2,41 mV** 5 - **2,98 mV**	**P**

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Clause	Requirement – Test	Result - Remark	Verdict
	Voltage drop after the 96th cycle:		
	- requirement: ≤ 4,8 mV or 1,5 times the value measured after the 24th cycle (mV) ..... :	1 – **3,33 mV** 2 - **2,42 mV** 3 - **2,32 mV** 4 - **2,41 mV** 5 - **2,95 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 – **3,34 mV** 2 - **2,42 mV** 3 - **2,32 mV** 4 - **2,41 mV** 5 - **2,95 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 – **3,34 mV** 2 - **2,42 mV** 3 - **2,32 mV** 4 - **2,40 mV** 5 - **2,94 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 – **3,34 mV** 2 - **2,42 mV** 3 - **2,33 mV** 4 - **2,40 mV** 5 - **2,94 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 – **3,35 mV** 2 - **2,42 mV** 3 - **2,33 mV** 4 - **2,40 mV** 5 - **2,93 mV**	**P**
	Pull-out test		
	force (N) ..... :	**90 N**	—

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Clause	Requirement – Test	Result - Remark	Verdict
	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.	**10 s**	**P**
	The terminal blocks are considered to have passed the test if the duration of burning is < 30s 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.		**P**
8.6	Verification of EMC characteristics		
	Subclause 8.4 of IEC 60947-1 applies with the following addition:		**N/A**
8.6.1	Immunity		
	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		
	Terminal blocks within the scope of this standard do not generate electromagnetic disturbances and therefore no emission tests are necessary.		**N/A**
Annex A	**vacant**		

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Clause	Requirement – Test	Result - Remark	Verdict
Annex B	**informative**		
	Items subject to agreement between manufacturer and user		
Annex C	**vacant**		
Annex D	**ADDITIONAL REQUIREMENTS FOR TEST DISCONNECT TERMINALBLOCKS**		
D5	Product information		
	- service life in number of cycles		**N/A**
D6.	Normal service, mounting and transport conditions		
	Clause 6 applies.		
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)		**N/A**
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 (with or without busbar)		**N/A**

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Clause	Requirement – Test	Result - Remark	Verdict
	the position of the disconnect unit shall be recognizable in normal use and shall not be changed unintentionally		**N/A**
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) ..... :		—
	- rated impulse withstand voltage (kV) ..... :		—
	- test Uimp without altitude correction factor (kV) :		**N/A**
D.8.4.5	Temperature-rise test		
	Temperature-rise conditions:		
	- test current (A) ..... :		—
	- cross-section of the conductor (mm²) ..... :		—
	- torque (Nm) ..... :		—
	- torque disconnect unit (Nm) ..... :		—
	- temperature-rise does not exceed 45 K		**N/A**
	Voltage drop before and after temperature-rise test:		
	- test current (A) d.c. ..... :		—
	- voltage drop (mV) before temperature-rise test not exceeding 1,6 mV times the total of conductor clamping unit and disconnect unit contact points ..... :		**N/A**
	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 ..... :		**N/A**
D.8.4.6	Short-time withstand current test		
	- rated cross-section of the conductor (mm²) ..... :		—
	- torque (Nm) ..... :		—
	- torque disconnect unit (Nm) ..... :		—
	- test current (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		**N/A**
	Voltage drop before and after short-time withstand current test		
	- test current (A) d.c. ..... :		—
	- voltage drop (mV) before temperature-rise test not exceeding 1,6 mV times the total of conductor clamping unit and disconnect unit contact points ..... :		**N/A**
	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 ..... :		**N/A**
D.8.4.7	Ageing test for test disconnect terminal blocks with screwless-type clamping units		
	Maximum ambient temperature (°C) ..... :	40 °C /	—
	Rated cross-section rigid or stranded < 10 mm² solid, > 10 mm² stranded (mm²) ..... :		—

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Clause	Requirement – Test	Result - Remark	Verdict
	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:		
	- 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:		

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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 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:		
	- 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) ..... :		—

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Clause	Requirement – Test	Result - Remark	Verdict
	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		
	- rated cross-section of the conductor (mm²) ..... :		—
	- torque (Nm) ..... :		—
	- torque disconnect unit (Nm) ..... :		—
	- number of operating cycles ..... :		—
	Entire test apparatus is stored for 168 h in dry heat at a temperature of 85 °C		**N/A**
	Voltage drop before and after service life		
	- test current (A) d.c. ..... :		—
	- voltage drop (mV) before service life test not exceeding 1,6 mV times the total of conductor clamping unit and disconnect unit contact points :		**N/A**
	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 ..... :		**N/A**
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.		**N/A**

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Clause	Requirement – Test	Result - Remark	Verdict

8.4.2	TABLE: Clearance And Creepage Distance Measurements					
clearance cl and creepage distance dcr at/of:	Uimp (kV)	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	**8**	**800**	**8**	**11,65**	**10**	**11,65**
Supplementary information:						

8.4.2	TABLE: Clearance And Creepage Distance Measurements					
clearance cl and creepage distance dcr at/of:	Uimp (kV)	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	**8**	**1000 Vac / 1500 Vdc**	**8**	**11,65**	**5 / 8**	**11,65**
Supplementary information:						

8.4.2	TABLE: Clearance And Creepage Distance Measurements type 2206-8033					
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 2206-1301, , 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:		

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Clause	Requirement – Test	Result - Remark	Verdict

8.4.3	TABLE: Dielectric Strength		
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:			

8.4.5	TABLE: Heating Test		
	Test voltage (V):	**< 2 V**	—
	Ambient (^{o}C):	**22,2 °C – 24,4 °C**	—

Thermocouple Locations	max. temperature-rise measured, (K)	max. temperature-rise limit, (K)
Centre terminal block	**43**	**45**
Supplementary information: **cross section 6 mm² with 41 A**		

8.4.5	TABLE: Heating Test		
	Test voltage (V):	**< 2 V**	—
	Ambient (^{o}C):	**22,2 °C – 24,4 °C**	—

Thermocouple Locations	max. temperature-rise measured, (K)	max. temperature-rise limit, (K)
Centre terminal block	**44**	**45**
Supplementary information: **cross section 10 mm² with 57 A**		

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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):	22,7 °C	—

Thermocouple Locations	max. temperature-rise measured, (K)	max. temperature-rise limit, (K)
CU 1 supply side	26,8	45
CU 2 supply side	29,5	45
CU 3 supply side	29,9	45
CU 4 supply side	30,9	45
CU 5 supply side	30,7	45
CU 1 load side	28,6	45
CU 2 load side	29,8	45
CU 3 load side	31,9	45
CU 4 load side	32,5	45
CU 5 load side	26,2	45
CU 1 load side	22,9	45
CU 2 load side	23,9	45
CU 3 load side	27,5	45
CU 4 load side	25,5	45
CU 5 load side	23,4	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):	22,0 °C	—

Thermocouple Locations	max. temperature-rise measured, (K)	max. temperature-rise limit, (K)
CU 1 supply side	29,9	45
CU 2 supply side	35,1	45
CU 3 supply side	37,5	45
CU 4 supply side	34,2	45
CU 5 supply side	29,4	45
CU 1 load side	29,2	45
CU 2 load side	32,7	45
CU 3 load side	36,1	45
CU 4 load side	34,6	45
CU 5 load side	27,9	45
CU 1 load side	26,2	45
CU 2 load side	30,7	45
CU 3 load side	34,8	45
CU 4 load side	32,6	45
CU 5 load side	24,5	45

Supplementary information: CU = clamping unit

41 A (6 mm²) supply side

24 A + 17 A
(2,5 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 (°C):	21,6 °C	—

Thermocouple Locations	max. temperature-rise measured, (K)	max. temperature-rise limit, (K)
CU 1 supply side	34,0	45
CU 2 supply side	37,2	45
CU 3 supply side	37,0	45
CU 4 supply side	36,0	45
CU 5 supply side	29,9	45
CU 1 load side	36,1	45
CU 2 load side	37,2	45
CU 3 load side	39,3	45
CU 4 load side	36,9	45
CU 5 load side	29,8	45
CU 1 load side	30,4	45
CU 2 load side	33,3	45
CU 3 load side	33,6	45
CU 4 load side	28,9	45
CU 5 load side	23,1	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):	22,1 °C	—

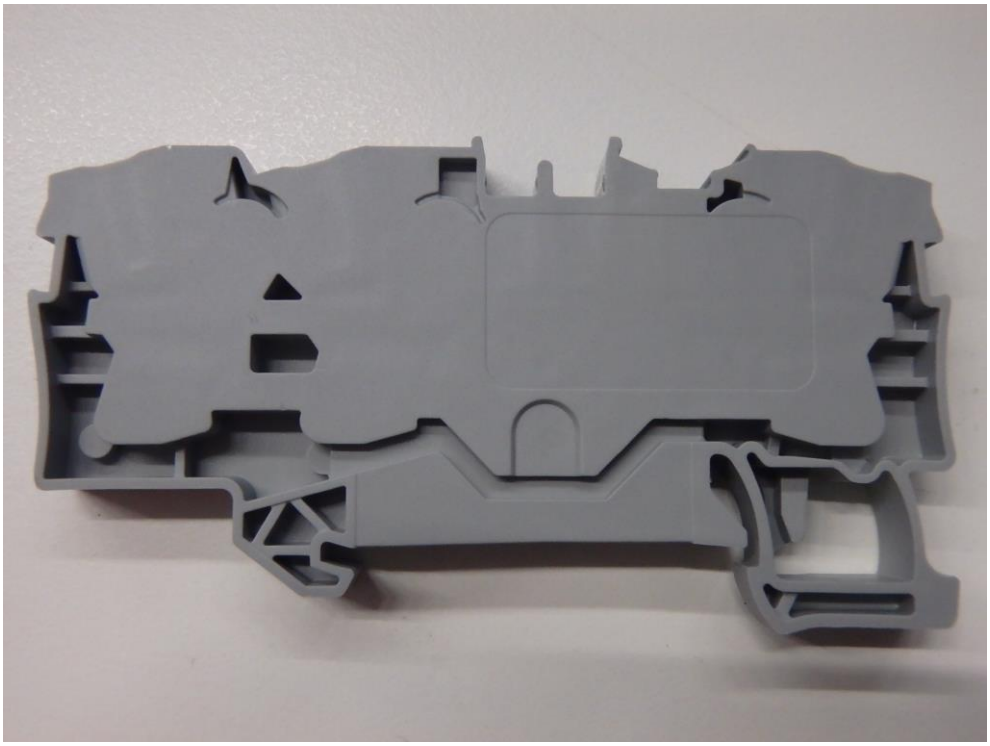
Thermocouple Locations	max. temperature-rise measured, (K)	max. temperature-rise limit, (K)
CU 1 supply side	32,4	45
CU 2 supply side	39,9	45
CU 3 supply side	34,0	45
CU 4 supply side	31,7	45
CU 5 supply side	28,4	45
CU 1 load side	34,1	45
CU 2 load side	35,4	45
CU 3 load side	37,6	45
CU 4 load side	35,2	45
CU 5 load side	31,5	45
CU 1 load side	28,4	45
CU 2 load side	29,2	45
CU 3 load side	30,4	45
CU 4 load side	27,9	45
CU 5 load side	22,3	45

Supplementary information: CU = clamping unit

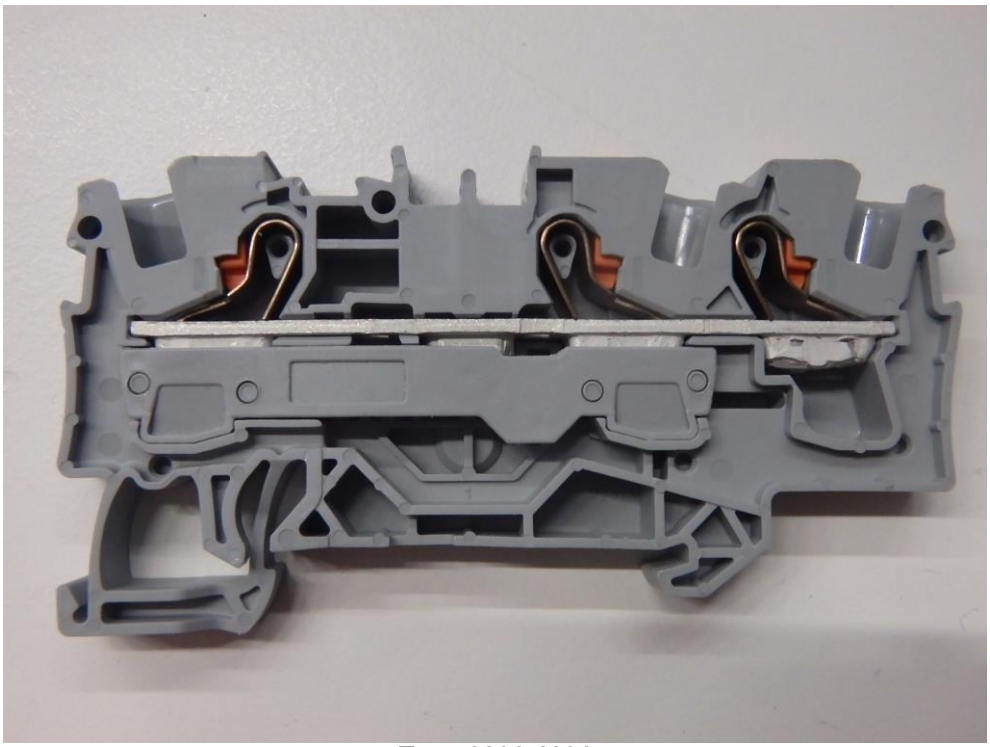
57 A (10 mm²) supply side

24 A + 24 A + 9 A
(2,5 mm²) load side

Remarks



Type 2206-1301

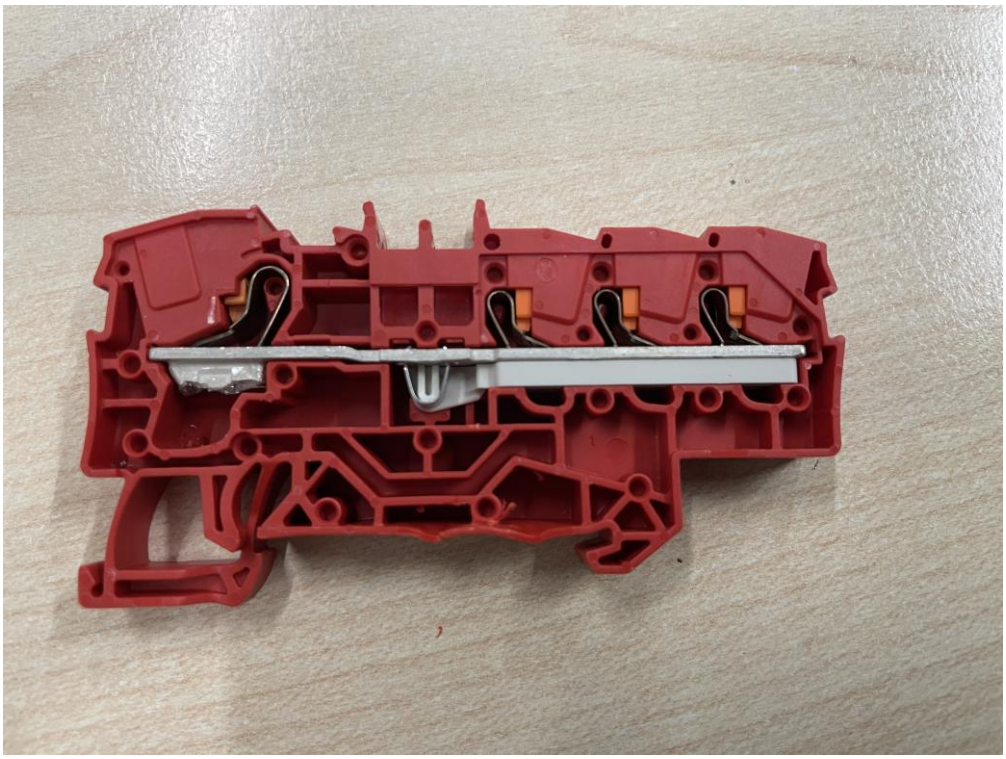


Type 2206-1301

Remarks



Type 2206-8033



Type 2206-8033

Remarks

Product	:	Terminal blocks for copper conductors
Trade name(s)	:	WAGO
Type(s)/model(s)	:	2206-12xx and 2206-13xx
Rated impulse withstand voltage	:	8 kV
Material	:	thermoplastic material
Method of mounting	:	top hat rail 35 mm

Product data – type 2206-12xx

Rated cross section	:	6 mm² / 10 mm²
Rated connection 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)
Types	:	2206 with suffixes -1201, -1202, -1203, -1204, -1205, -1206, -1209
Description	:	2-conductor through terminal block, with screwless-type clamping units, with push buttons on both sides, 1-pole
Type	:	2206-1208
Description	:	2-conductor shield terminal block, with screwless-type clamping units, with push buttons on both sides, 1-pole

Product data – type 2206-13xx

Rated cross section	:	6 mm² / 10 mm²
Rated connection 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)
Types	:	2206 with suffixes -1301, -1302, -1303, -1304, -1305, -1306, -1309
Description	:	3-conductor through terminal block, with screwless-type clamping units, with push buttons on both sides, 1-pole
Type	:	2206-1308
Description	:	3-conductor shield terminal block, with screwless-type clamping units, with push buttons on both sides, 1-pole

Remarks

Product data – type 2206-80xx

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)
Type	:	2206 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. 2206-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.