ENEC LICENCE

Licence No.	ENEC-01360
Page	1/3
Date of Issue	2016-03-04

Licence Holder	WAGO KONTAKTTECHNIK GMBH & CO KG HANSASTRASSE 27 MINDEN, 32423 Germany
Production site	WAGO CONTACT SA ROUTE DE L'INDUSTRIE 19 DOMDIDIER, CH-1564 Switzerland See Page 2
Certification Mark	See Annex 1
Certified Product	Terminal Blocks
Model	222-412, 222-413, 222-414, 222-415
Trademark	
Rated Voltage / Frequency	2.5 to 4 mm² / 400 V, 2.5 mm² r/f 24A and 4 mm² f 32A
Rated Current / Power	See Rated Voltage
Insulation Class	--
Degree of protection (IP)	IP00
Tested acc. to	EN 60998-1:2004, EN 60998-2-2:2004
Test Report No.	4787144374.1.1 issued on 2016-02-29
Additional	

Certification Manager
Jan-Erik Storgaard

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC Requirements. The Designated License holder is entitled to use the ENEC 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing the ENEC Mark should be considered as being covered by UL's ENEC Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).

Certification Body

UL International Demko A/S, Borupvang 5A, DK-2750 Ballerup, Denmark, Tel. +45 44 85 65 65, info.dk@ul.com
www.ul-europe.com

ENEC LICENCE

Production Sites:

WAGO KONTAKTTECHNIK GMBH & CO KG
HANSASTRASSE 27
MINDEN, 32423 Germany

WAGO KONTAKTTECHNIK GMBH & CO KG
WALDSTRASSE 1
SONDERSHAUSEN, 99706 Germany

Certification Body

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Annex 1 to Licence No.

ENEC-01360

Annex of the form of the Mark



* Identification number of the Certification Body

Size of the mark:

The size of the mark may be reduced on the condition that it remains legible and that the ratio b/a=1,7 is kept

Certification Body

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Test Report issued under the responsibility of UL International Demko A/S

TEST REPORT

EN 60998-2-2:2004 and IEC 60998-2-2:2002

Connecting devices for low voltage circuits for household and similar purposes
Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units

Report Reference No. ..... :	4787144374.1.1
Tested by (name + signature) ..... :	Allan Broholm
Witnessed by (name+ signature) ..... :	.....
Supervised by (name+ signature) .... :	.....
Approved by (name+ signature) ..... :	Robert D. Osborne
Date of issue..... :	2016-02-29
Number of pages..... :	Total 18 pages with Annex 1 of 1 pages and Annex 2 of 2 pages
CB Testing laboratory name..... :	UL International Demko A/S
Address..... :	Borupvang 5A, 2750 Ballerup, Denmark
Testing location/ procedure ..... :	CBTL ☒ TMP ☐ WMT ☐ SMT ☐
Testing location/ address ..... :	**as above**
Applicant's name.....:	WAGO Kontakttechnik GmbH & Co. KG
Address.....:	Hansastrasse 27, D-32423 Minden, Germany
Test specification:	
Standard ..... :	☐ IEC 60 998-2-2:2002 (see also IEC 60 998-1:2002)
	☒ EN 60 998-2-2:2004 (see also EN 60 998-1:2004)
Test procedure ..... :	☒ CCA
	☐ CB
Non-standard test method..... :	N/A
Test Report Form No. ..... :	IECEN60998_2_2A
TRF originator..... :	KEMA
Master TRF..... :	2004-07

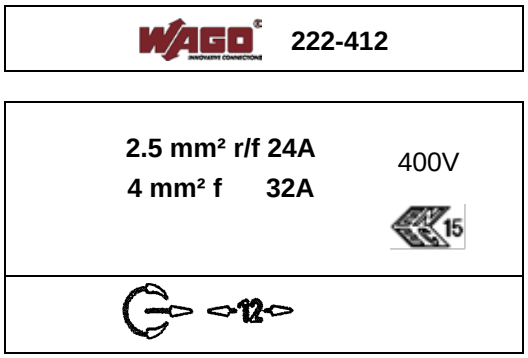
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Procedure deviation..... :	N.A.
Type of test object ..... :	Terminal Blocks
Trademark ..... :	WAGO
Model/type reference..... :	Series 222-412, 222-413, 222-414, 222-415 (see Annex 1)
Manufacturer ..... :	WAGO Kontakttechnik GmbH, Hansastraße 27, D-32423 Minden, Germany.
Rating..... :	2.5 to 4 mm² / 400 V, 2.5 mm² r/f 24A and 4 mm² f 32A

Test item particulars:		
Number of terminals	☒ single	☐ multiway
Protection against electric shock	☐ with	☒ without
Means of fixing	☐ with	☒ without
IP number	IP 00	
Ambient temperature	☒ without T marking	☐ with T marking (°C):
Type of terminals, screwless-type	☒ universal ☐ non-universal	☐ push wire
Rated connecting capacity (mm²)	☐ 0,5 mm² ☐ 0,75 mm² ☐ 1 mm² ☐ 1,5 mm²	
	☒ 2,5 mm² ☒ 4 mm² ☐ 6 mm² ☐ 10 mm²	
	☐ 16 mm² ☐ 25 mm² ☐ 35 mm²	
Type of connector	☒ rigid	☒ flexible
Rated voltage (V a.c. / V d.c.)	☒ AC	☒ DC

Copy of marking plate and summary of test results (information/comments):



Summary of testing:

cl.10 CONNECTION OF CONDUCTORS

cl. 11 CONSTRUCTION

cl. 12 RESISTANCE TO AGEING, TO HUMIDITY CONDITIONS, TO INGRESS OF SOLID OBJECTS AND TO HARMFUL INGRESS OF WATER

cl 13 INSULATION RESISTANCE AND ELECTRIC STRENGTH

cl. 14 MECHANICAL STRENGTH

cl. 15 TEMPERATURE RISE

cl. 16 RESISTANCE TO HEAT

cl. 17 CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND

cl. 18 RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT AND FIRE

cl. 19 RESISTANCE OF INSULATING MATERIAL TO TRACKING

Sample used for test:

-Sample 1a-1b-1c (2265745-NW) and
1d-1e-1f (2265744-NW): clause 10.104.1

-Sample 1g-1h-1i((2265744-NW): clause 11.5

-Sample 2a-2b-2c (2265745-NW) and
2d-2e-2f(2265743-NW): clause 10.105+10.106.

-Sample 3a-3b-3c (2265745-NW) and
3d-3e-3f (2265744-NW): clause 8+12+13+15

-Sample 3a-3b-3c (2265745-NW): clause 16
3d-3e-3f (2265744-NW): clause 17

-Sample 4a-4b-4c (2265744-NW): clause 14.101

-Sample 5a-5b-5c (2265745-NW): clause 15.101
5d-5e-5f (2265743-NW): clause 15.101

-Sample 6a-6b-6c (2265744-NW): clause 18

-Sample 7a-7b-7c (2265745-NW): clause 19

Lab. Data sheet with Report ref. No. 4787099278.1.1A and 4787099278.1.1B and 4787099278.1.1C covers all relevant clauses.

Conductors Range:

Rigid Wire→ Solid conductors 0.2 mm² until 2.5 mm²

Rigid Wire→ Stranded conductors 0.2 mm² until 2.5 mm²

Flexible conductors 0.2 mm² until 4.0 mm²

Possible test case verdicts:	
- test case does not apply to the test object..... :	**N(.A.)**
- test object does meet the requirement ..... :	**P(ass)**
- test object does not meet the requirement ..... :	**F(ail)**
Testing ..... :	
Date of receipt of test item ..... :	2015-12-10 See Sample Card No. Annex 1
Date (s) of performance of tests ..... :	2016-01-09 to 2016-02-18

General remarks:

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.

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 testing laboratory.

"(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 or ☒ point is used as the decimal separator.

8	**MARKING**		
8.1	On main part		
	a) rated connecting capacity (mm²)……..:	2.5 – 4.0 mm²	Pass
	b) rated insulation voltage (V) .....:	400	Pass
	c) T marking (°C) (if > 40 °C or < -5 °C) ……..:	-5 °C up to +40 °C	Pass
	d) type reference .....:	222 series	Pass
	e) manufacturer's or responsible vendor's name, trademark or identification mark .....:	WAGO	Pass
	f) IP if > IP20 ……..:	IP00	N.A.
	Type of acceptable conductor "s" or "r" or "f".....:	”s” “r” ”f”	Pass
	Small devices: only d) and e) indicated on device		Pass
	All marks visible on smallest package unit	Catalogue / package	Pass
8.2	Multiway terminal devices: at least two adjacent		Pass
8.4	Marking: durable and easily legible; 15 s water; 15 s hexane	Moulding	Pass
9	**PROTECTION AGAINST ELECTRIC SHOCK**		
	Live parts not accessible	Depending on the mounting in the final equipment	Pass
10	**CONNECTION OF CONDUCTORS**		
10.1	Connecting devices allow correct connection of conductors		Pass
10.101	Connection or disconnection: use a general tool or simple insertion	Convenient device integral with the terminal	Pass
	Disconnection operation other than a pull		Pass
10.102	Terminals accept two or more conductors of same or different nominal cross-sectional areas; see table 101 (as specified by manufacturer):		Pass
	Rated connecting capacity (mm).....:	2.5 – 4.0 mm²	
	Suitable for connecting cross-sectional areas (mm :	0.2 mm² / 0.34 mm² / 0.5 mm² / 0.75 mm² / 1.0 mm² / 1.5 mm² / 2.5 mm² / 4.0 mm²	
	During the test: terminals show no damage		Pass
10.103	Terminals accept rigid and flexible conductors (table 101), unless otherwise specified (see 8.1)	Rigid and Flexible	Pass
	Smallest diameter (mm); largest diameter (mm) ....:	Smallest: 0.20 mm²; 0.51 mm Largest: 4.0 mm²; 2.9 mm	
	During the test: terminals show no damage		Pass
10.104	Terminals clamp the conductor without undue damage: **Sample 1a-1b-1c-1d-1e-1f**		Pass
10.104.1	Connection/disconnection 5 times: smallest diameter (mm) .....:	0.51 mm (0.2 mm²) solid 0.53 mm (0.2 mm²) stranded	

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
		0.61 mm(0.2 mm²) Flex	
	Connection/disconnection 5 times: largest diameter (mm).....:	1.9mm (2.5 mm²) solid 2.2 mm (2.5 mm²) stranded 2.9 mm (4.0 mm²) Flex	
	After the test, terminal not damaged		Pass
10.104.2	Rated cross-sectional areas (mm) .....:	2,5 – 4,0 mm²	
	Type.....:	Solid / stranded/ Flex	
	After the test, no wire of conductor escaped outside the terminal		Pass
10.105	Smallest cross-sectional area (mm²); height H (mm); mass (kg) .....:	Sample 2a-2b-2c-2d-2e-2f (unused clamping unit) 0.2 mm²; 6.4 mm; 260 mm; 0.2, kg stranded and Solid and Flex	
	Largest cross-sectional area (mm²); height H (mm); mass (kg) .....:	2.5 mm²; 9.5 mm; 280 mm; 0.7 kg, Stranded and Solid	
	Largest cross-sectional area (mm²); height H (mm); mass (kg) .....:	4 mm²; 9.5 mm; 280 mm; 0.9 kg, Flex	
	during the test: the conductor does not slip out, no break near clamping unit and no damage		Pass
10.106	Pull test: Sample 2a-2b-2c-2d-2e-2f (unused clamping unit same as 10.105)		Pass
	- min. cross-sectional area (mm²); pull (N).....:	0.2 mm²; 10 N	
	- max. cross-sectional area (mm²); pull (N).....:	2.5 mm²; 50 N for Solid and Stranded	
	- max. cross-sectional area (mm²); pull (N).....:	4.0 mm²; 60 N for flex	
	- during the test the conductor does not come out		Pass

11	**CONSTRUCTION**		
11.101	Contact pressure not transmitted via insulating material, unless there is sufficient resiliency		Pass
11.102	Insertion and disconnection, in accordance with manufacturer's instructions		Pass
	Openings clearly distinguishable		Pass
11.103	Terminals so constructed that:		
	- each conductor is clamped individually		Pass
	- conductors can be connected or disconnected at same time or separately		Pass
	Possible to clamp maximum number of conductors		Pass

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
11.104 11.105	Inadequate insertion of conductor avoided Bending (tested in clause 14.101)	Clause 11.105 is added by UL International DEMKO A/S	Pass
11.2	Clamping units clamp conductors reliably and between metal surfaces		Pass
11.3	Connecting devices: insulation of conductors not in contact with live parts of different polarity		Pass
11.4	Insulating lining: adequate mechanical strength and secured in a reliable manner		Pass
11.5	Current-carrying parts: adequate mechanical strength, electrical conductivity and resistance to corrosion; type of metal.....:	77% Cu	Pass
	Current-carrying parts not made with electroplated coating if subjected to mechanical wear		N.A.
11.6	Terminals: possible to connect number of conductors as specified by the manufacturer:		Pass
	- number of conductors.....:	1	
	- rigid, cross-sectional area (mm²).....:	0.2 to 4 mm²	
	- flexible, cross-sectional area (mm²) .....:		
	During the test: terminals show no damage		Pass
11.7	Fixing means of bases do not serve any other purpose		Pass

12	**RESISTANCE TO AGEING, TO HUMIDITY CONDITIONS, TO INGRESS OF SOLID OBJECTS AND TO HARMFUL INGRESS OF WATER** **Sample 3a-3b-3c-3d-3e-3f**		
12.1	Connecting devices resistant to ageing; after the test (168 h): no cracks visible, not sticky or greasy, no damage; test temperature (°C).....:	☒ 70 °C ☐ T + 30 °C =	Pass
12.2	After humidity test (91-95%): no damage; test duration (168 h for connecting devices > IPx2, 48 h for all other) .....:	IP00 48 h	Pass
12.3	IP test (IEC 60529) .....:	IPx	N.A.
	After the test, electric strength test as 13.4, and by inspection	IPx	N.A.
	no appreciable entry of water		N.A.

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

13	**INSULATION RESISTANCE AND ELECTRIC STRENGTH** **Sample 3a-3b-3c-3d-3e-3f**		
13.3	Clamping unit connected with: smallest cross-sectional area (mm²); largest cross-sectional area (mm²) ..... :	0.2 mm² / 4 mm²	
	Insulation resistance (500 V d.c. for 1 min):		
	1) between all clamping units connected together and the body > 5 MΩ ..... :	5 MΩ	Pass
	2) between each clamping unit and all others connected to the body > 5 MΩ..... :		N.A.
	3) between metal foil and the body > 5 MΩ..... :		N.A.
	3a) if necessary, between live parts and metal covers and enclosures > 5 MΩ..... :		N.A.
	3b) if necessary, between live parts and surface on which the base is mounted > 5 MΩ..... :		N.A.
13.4	Electric strength (a.c. for 1 min): no flashover or breakdown:		
	1) test voltage (V)..... :	2500 V	Pass
	2) test voltage (V)..... :		N.A.
	3) test voltage (V)..... :		N.A.
	3a) test voltage (V)..... :		N.A.
	3b) test voltage (V)..... :		N.A.

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

14	**MECHANICAL STRENGTH**				
14.101	the test conductor, properly inserted into a clamping unit of the connection devices shall be allowed to be bent (deflected) in all 12 directions each of them differing from the adjacent directions by 30° ± 5° **Sample 4a-4b-4c**				Pass
	Deflection test (principle of test apparatus shown in figure 103a):				Pass
	a 10 th of the test current (A).....:	0.4 A			—
	smallest cross-sectional area (mm^2) 10.103 .....:	0.2 mm^2			—
	Force (N) (table 104) .....:	0.09 N			—
	Distance (mm) (table 104) ……..:	100 mm			—
	- screwless terminal number.....:	1	2	3	—
	- voltage drop measured (mV) (1st deflection) .....:	0.81	1.20	1.12	Pass
	- voltage drop measured (mV) (2nd deflection) .....:	0.89	1.25	1.21	Pass
	- voltage drop measured (mV) (3rd deflection) .....:	1.32	1.12	0.93	Pass
	- voltage drop measured (mV) (4th deflection) .....:	1.12	1.16	1.13	Pass
	- voltage drop measured (mV) (5th deflection) .....:	0.95	1.32	1.07	Pass
	- voltage drop measured (mV) (6th deflection) .....:	0.78	0.98	0.95	Pass
	- voltage drop measured (mV) (7th deflection) .....:	0.85	1.42	1.12	Pass
	- voltage drop measured (mV) (8th deflection) .....:	0.93	1.38	1.32	Pass
	- voltage drop measured (mV) (9th deflection) .....:	1.13	1.04	1.08	Pass
	- voltage drop measured (mV) (10th deflection) .....:	1.22	1.19	1.00	Pass
	- voltage drop measured (mV) (11th deflection) .....:	0.88	1.06	0.87	Pass
	- voltage drop measured (mV) (12th deflection) .....:	0.79	1.09	1.07	Pass
	- requirement: ≤ 2,5 mV				
	a 10 th of the test current (A).....:	3.2 A			Pass
	Largest cross-sectional area (mm^2) 10.103 .....:	4 mm^2			Pass
	force (N) (table 104) .....:	2 N			—
	Distance (mm) (table 104) ……..:	100 mm			—
	- screwless terminal number.....:	1	2	3	—
	- voltage drop measured (mV) (1st deflection) .....:	1.25	1.65	2.08	Pass
	- voltage drop measured (mV) (2nd deflection) .....:	1.36	1.87	2.32	Pass
	- voltage drop measured (mV) (3rd deflection) .....:	1.45	1.69	2.42	Pass
	- voltage drop measured (mV) (4th deflection) .....:	1.65	1.55	2.14	Pass
	- voltage drop measured (mV) (5th deflection) .....:	1.87	1.49	2.29	Pass
	- voltage drop measured (mV) (6th deflection) .....:	2.05	1.28	2.32	Pass
	- voltage drop measured (mV) (7th deflection) .....:	1.78	1.34	2.21	Pass

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

	- voltage drop measured (mV) (8th deflection) .....:	1.09	1.98	2.01	Pass
	- voltage drop measured (mV) (9th deflection) .....:	1.08	2.04	1.88	Pass
	- voltage drop measured (mV) (10th deflection) .....:	1.35	1.87	1.52	Pass
	- voltage drop measured (mV) (11th deflection) .....:	2.45	1.39	1.64	Pass
	- voltage drop measured (mV) (12th deflection) .....:	2.12	1.78	1.89	Pass
	- requirement: ≤ 2,5 mV				
14.2	Tumbling barrel (for < 50 g): 50 falls; after the test no damage	< 50 g < 50 g (See datasheet 4786875331.1.1A for Weight)			Pass
14.3	Impact test (for > 50 g): 10 blows:				N.A.
	- height of fall: 7,5 cm	< 50 g (See datasheet 4786875331.1.1A for Weight)			N.A.
	- height of fall: 10 cm	< 50 g (See datasheet 4786875331.1.1A for Weight)			N.A.
	- height of fall: 20 cm	< 50 g (See datasheet 4786875331.1.1A for Weight)			N.A.
	- height of fall: 25 cm	< 50 g (See datasheet 4786875331.1.1A for Weight)			N.A.
	After the test, no damage and live parts shall not become accessible				N.A.

15	**TEMPERATURE RISE**	**Sample 3a-3b-3c-3d-3e-3f**	
	Terminal .....:	☒ single ☐multiway	Pass
	T marking (°C).....:	☐Yes (°C):	N.A.
	Largest cross-sectional area (mm²) .....:	Solid 2.5 mm^2 / Flex 4 mm^2	

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
	Conductors.....:	Solid / Flex	Pass
	Rated connecting capacity (mm²).....:	Solid: 2.5 mm^2 Flex: 4 mm^2	
	Test current (A).....:	Solid 2.5 mm^2=24 A Flex 4 mm^2=32 A	
	Temperature rise does not exceed 45 K (1).....:	solid 22.7K / Flex 21.8K	Pass
	Temperature rise does not exceed 45 K (2).....:	solid 18.5K / Flex 29.1K	Pass
	Temperature rise does not exceed 45 K (3).....:	solid 20.1K / Flex 23.8 K	Pass
15.101	Universal, rigid conductors - 6 samples		Pass
	Universal, flexible conductors - 6 samples		Pass
	Non-universal, rigid solid conductors - 6 samples		N/A
	Non-universal, rigid stranded conductors - 6 samples		N/A
	Non-universal, flexible conductors - 6 samples		N.A.
	Temperature (°C).....:	☒ 40 °C ☐ 80°C	
	Smallest cross-sectional area (mm ☐).....:	**Sample 5a-5b-5c** 0.2 mm^2	
	Current (A).....:	4 A	
	Voltage drop after 24 cycles:		Pass
	- solid conductors.....:	1) 10.4 mV 2) 8.9mV 3) 10.7mV 4) 12.5mV 5) 10.8mV 6) 6.8mV	Pass
	- stranded conductors.....:		N/A
	- flexible conductors.....:	1) 9.4mV 2) 8.9mV 3) 13.4mV 4) 11.8mV 5) 9.3mV 6) 10.5mV	Pass
	Voltage drop after 192 cycles:		Pass
	- requirement: 22,5 mV or 1,5 times 24th cycle Value :	>22.5 mV	Pass
	- solid conductors :	1) 13.3 mV 2) 10.8 mV 3) 11.8 mV 4) 15.2 mV 5) 10.5 mV 6) 9.4 mV	Pass

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
	- stranded conductors :		N/A
	- flexible conductors :	1) 10.5 mV 2) 11.8mV 3) 14.6mV 4) 12.7mV 5) 9.9mV 6) 11.6mV	Pass

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

	Largest cross-sectional area (mm ☐) ..... :	**Sample 5d-5e-5f** 4 mm²	
	Current (A) ..... :	32 A	
	Voltage drop after 24 cycles:		Pass
	- solid conductors ..... :	1) 13.3 mV 2) 10.8 mV 3) 11.8 mV 4) 15.2 mV 5) 10.5 mV 6) 9.4 mV	Pass
	- stranded conductors ..... :	1) 13.4mV 2) 14.7mV 3) 12.5mV 4) 11.8mV 5) 12.7mV 6) 13.6mV	Pass
	- flexible conductors ..... :	1) 10.5 mV 2) 11.8mV 3) 14.6mV 4) 12.7mV 5) 9.9mV 6) 11.6mV	Pass
	Voltage drop after 192 cycles:		
	- requirement: 22,5 mV or 1,5 times 24th cycle value :	>22.5 mV	Pass
	- solid conductors :	1) 10.5 mV 2) 13.4mV 3) 14.2mV 4) 10.4mV 5) 11.8mV 6) 12.8mV	Pass
	- stranded conductors :	1) 14.2mV 2) 15.4mV 3) 13.9mV 4) 13.4mV 5) 12.0mV 6) 14.9mV	Pass
	- flexible conductors :	1) 17.2mV 2) 18.6mV 3) 15.0mV 4) 16.7mV 5) 17.3mV 6) 14.2mV	Pass

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

16	**RESISTANCE TO HEAT**	**Sample 3a-3b-3c**	
16.2	Heating cabinet: no damage, after the test, markings still legible; test temperature (°C)	☒ 85 °C ☐T + 45 °C =	Pass
16.3	Ball-pressure test (125 °C) for parts necessary to retain current-carrying parts in position	125 °C Impression: round Ø= 0.89mm	Pass
	Ball-pressure test for parts not necessary to retain current-carrying parts in position; test temperature (°C) ..... :	☐ 70 °C ☐ 40 +T	N.A.
	Diameter of impression not exceeding 2 mm ..... :	Impression: round Ø= 0.89mm	Pass

17	**CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND** **Sample 3d-3e-3f**		
	Creepage distances (mm) and clearances (mm) between live parts of different polarity ..... :	> 4,0 mm same for Cd and Cl	
	idem, requirement (mm) ..... :	400 V; min. 4,0 mm Measure 6.8 mm	Pass
	Creepage distances (mm) and clearances (mm) between live parts and metal covers and enclosures ..... :	> 4,0 mm same for Cd and Cl	
	idem, requirement (mm) ..... :	400 V; min. 4,0 mm Measure 6.8 mm	Pass
	Creepage distances (mm) and clearances (mm) between live parts and surface on which the base is mounted ..... :	Terminal blocks	
	idem, requirement (mm) ..... :		N.A.
	Distances (mm) through sealing compound between live parts and surface on which the base is mounted ..... :		
	idem, requirement (mm) ..... :		N.A.

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

18	**RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT AND FIRE** **Sample 6a-6b-6c**		
	Glow-wire test (850 °C) for parts necessary to retain current-carrying parts in position	**Thermoplastic**	Pass
	Glow-wire test (650 °C) for parts not necessary to retain current-carrying parts in position		N/A
	No visible flames and no sustained glowing, or if flame and glowing, extinguish within 30 s .....:		Pass
	No ignition of the tissue paper or scorching of the board		Pass

19	**RESISTANCE OF INSULATING MATERIAL TO TRACKING** **Sample 7a-7b-7c**		
	50 drops, 175 V, solution A (IEC 60112): no flashover	PTI 175 V	Pass

Push-wire connector for junction boxes; 2-5-conductor terminal block; push-wire connection.

Terminal Blocks 0.2 – 4.0 mm², Series 222, Universal					
Item-No.	**Nos. Of poles**	**In all colours**		**Standard colour**	**Rated voltage [V]**
222-412	4X2	N/A		Light-grey	400
222-413	4X3	N/A		Light-grey	400
222-414	4X4	N/A		Light-grey	400
222-415	4X5	N/A		Light-grey	400

Sample Card No.

222-4X2 sample No. (2265743-NW)
222-4X3 sample No. (2265744-NW)
222-4X5 sample No. (2265745-NW)

Manufacturer

WAGO Kontakttechnik GmbH & Co. KG, Hansastrasse 27, D-32423 Minden, Germany.

Production sites

WAGO Kontakttechnik GmbH & Co. KG, Hansastrasse 27, D-32423 Minden, Germany.
WAGO Kontakttechnik GmbH & Co. KG, Waldstraße 1, D-99706 Sondershausen, Germany.
WAGO Contact SA, Route de l'Industrie 19, CH-1564 Domdidier, Switzerland

This terminal Block is a portable device.

Photo of Terminal Block type 222-4XX










>PA66<