

ENEC LICENCE

Licence No. ENEC-01207
Page 1/3
Date of Issue 2015-09-04

Licence Holder WAGO KONTAKTTECHNIK GMBH & CO KG
HANSASTRASSE 27

Production site MINDEN, 32423 Germany
WAGO CONTACT SA
ROUTE DE L'INDUSTRIE 19
DOMDIDIER, CH-1564 Switzerland
See Page 2

Certification Mark See Annex 1

Certified Product Push-wire Terminal

Model Series 773

See Page 2

Trademark



Rated Voltage / Frequency 400 V

Rated Current / Power -

Insulation Class -

Degree of protection (IP) 00

Tested acc. to EN 60998-1:2004, EN 60998-2-2:2004

Test Report No. 4786875331.1.1 issued on 2015-08-31

Additional This certificate replaces the certificate No. ENEC-140612-01,
dated 2006-01-25

Certification Manager
Jan-Erik Storgaard

Certification Body

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with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).

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Model Details:
Series 773 See test report for details

Production Sites:

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

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

Additional Information:
2,5 to 6 mm²

Certification Body

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Annex 1 to Licence No.

ENEC-01207

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:

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.	4786875331.1.1
Tested by (name + signature)	Henrik Roelshoej 
Witnessed by (name+ signature)	
Supervised by (name+ signature)	
Approved by (name+ signature)	Erik Hegelund 
Date of issue.....	2015-08-31
Number of pages.....	13 report 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	: Push-wire Terminal
Trademark	: 
Model/type reference.....	: Series 773
Manufacturer	: WAGO Kontakttechnik GmbH & Co. KG, Hansastrasse 27, D-32423 Minden, Germany.
Rating.....	: 2,5 to 6 mm ² / 400 V

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

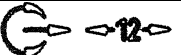
Type of connector.....: ☒ rigid ☐ flexible

Rated voltage (V a.c. / V d.c.).....: ☒ AC ☐ DC

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

 773

 15 6 □ sol
400 V

 12

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

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: 2015-07-08 (2159903-NW / 2159905-NW)

Date (s) of performance of tests: 2015-08-03 to 2015-08-28

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 IEC 60060-2.

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.

See page 12 and 13 - Remarks, for product details.

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

Note: This report is a reissue of TR No. 137981-02, ENEC Test Certificate Ref. 140612-01.

8	MARKING		
8.1	On main part		
	a) rated connecting capacity (mm ²).....:	2,5 – 4,0 – 6,0 mm ²	Pass
	b) rated insulation voltage (V).....:		N.A.
	c) T marking (°C) (if > 40 °C or < -5 °C)	-5 °C up to +40 °C	Pass
	d) type reference	773 series	Pass
	e) manufacturer's or responsible vendor's name, trademark or identification mark		Pass
	f) IP if > IP20	IP00	N.A.
	Type of acceptable conductor "s" or "r" or "f"	"r"	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	Simple insertion	Pass
	Disconnection operation other than a pull	Twist while pulling	Pass
10.102	Terminals accept two or more conductors of same or different nominal cross-sectional areas; see table 101 (as specified by manufacturer):		
	Rated connecting capacity (mm).....:	2,5 – 4,0 – 6,0 mm ²	
	Suitable for connecting cross-sectional areas (mm :	2,5 - 4,0 - 6,0 mm ²	
10.103	Terminals accept rigid and flexible conductors (table 101), unless otherwise specified (see 8.1)		Pass
	Smallest diameter (mm); largest diameter (mm):	2,5 mm ² - 6,0 mm ²	
	During the test: terminals show no damage		Pass
10.104	Terminals clamp the conductor without undue damage:		
10.104.1	Connection/disconnection 5 times: smallest diameter (mm)	Sample 10-11-12 1,9 mm (2,5 mm ²) solid 2,2 mm (2,5 mm ²) stranded	
	Connection/disconnection 5 times: largest diameter (mm)	2,9 mm (6,0 mm ²) solid 3,3 mm (6,0 mm ²) stranded	

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
	After the test, terminal not damaged		Pass
10.104.2	Rated cross-sectional areas (mm)	Sample 13-14-15 2,5 – 4,0 – 6,0 mm ²	
	Type.....	Solid / stranded	
	After the test, no wire of conductor escaped outside the terminal		Pass
10.105	Smallest cross-sectional area (mm ²); height H (mm); mass (kg)	Sample 1 – 2 – 3 (unused clamping unit) 2,5 mm ² ; 9,5 mm; 280 mm; 0,7 kg	
	Largest cross-sectional area (mm ²); height H (mm); mass (kg)	6 mm ² ; 9,5 mm; 280 mm; 1,4 kg	
	during the test: the conductor does not slip out, no break near clamping unit and no damage		Pass
10.106	Pull test:	Sample 1 – 2 – 3 (unused clamping unit same as 10.105)	
	- min. cross-sectional area (mm ²); pull (N).....	2,5 mm ² ; 50 N	
	- max. cross-sectional area (mm ²); pull (N).....	6 mm ² ; 80 N	
	- 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
11.104	Inadequate insertion of conductor avoided	Clause 11.105 is added by UL International DEMKO A/S	Pass
11.105	Bending (tested in clause 14.101)		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

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
11.5	Current-carrying parts: adequate mechanical strength, electrical conductivity and resistance to corrosion; type of metal.....:	> 58% 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:		
	- number of conductors.....:	1	
	- rigid, cross-sectional area (mm ²).....:	2,5 to 6 mm ² (sol)	
	- flexible, cross-sectional area (mm ²)		
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 1 – 2 – 3	
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 =
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
12.3	IP test (IEC 60529)	IPx
	After the test, electric strength test as 13.4, and by inspection	IPx
	no appreciable entry of water	N.A.

13	INSULATION RESISTANCE AND ELECTRIC STRENGTH Sample 1 – 2 – 3	
13.3	Clamping unit connected with: smallest cross-sectional area (mm ²); largest cross-sectional area (mm ²)	2,5 / 6 mm ²
	Insulation resistance (500 V d.c. for 1 min):	
	1) between all clamping units connected together and the body > 5 MΩ	> 5 MΩ
	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.

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002					
Cl.	Requirement - Test	Result - Remark			Verdict
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.
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 4 – 5 – 6)				
	Deflection test (principle of test apparatus shown in figure 103a):				
	a 10 th of the test current (A).....:	2,4 A			—
	smallest cross-sectional area (mm ²) 10.103	2,5 mm ²			—
	Force (N) (table 104)	1,0 N			—
	Distance (mm) (table 104)	100 mm			—
	- screwless terminal number.....:	1	2	3	—
	- voltage drop measured (mV) (1 st deflection)	1,25	1,35	1,32	Pass
	- voltage drop measured (mV) (2 nd deflection)	1,22	1,41	1,14	Pass
	- voltage drop measured (mV) (3 rd deflection)	1,11	1,36	2,06	Pass
	- voltage drop measured (mV) (4 th deflection)	1,05	1,87	1,65	Pass
	- voltage drop measured (mV) (5 th deflection)	1,09	1,78	1,34	Pass
	- voltage drop measured (mV) (6 th deflection)	1,21	1,66	1,23	Pass
	- voltage drop measured (mV) (7 th deflection)	1,34	1,43	1,76	Pass
	- voltage drop measured (mV) (8 th deflection)	1,87	1,03	2,21	Pass
	- voltage drop measured (mV) (9 th deflection)	1,69	1,08	2,32	Pass
	- voltage drop measured (mV) (10 th deflection)	1,55	1,09	2,13	Pass
	- voltage drop measured (mV) (11 th deflection)	1,54	1,43	2,90	Pass
	- voltage drop measured (mV) (12 th deflection)	1,28	2,05	1,98	Pass
	- requirement: ≤ 2,5 mV				Pass
	a 10 th of the test current (A).....:	2,4 A			Pass
	Largest cross-sectional area (mm ²) 10.103	6 mm ²			Pass
	force (N) (table 104)	2 N			—
	Distance (mm) (table 104)	100 mm			—
	- screwless terminal number.....:	1	2	3	—

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

	- voltage drop measured (mV) (1 st deflection)	1,02	1,03	1,21	Pass
	- voltage drop measured (mV) (2 nd deflection)	0,83	0,76	0,78	Pass
	- voltage drop measured (mV) (3 rd deflection)	0,85	0,91	0,95	Pass
	- voltage drop measured (mV) (4 th deflection)	0,91	0,87	0,80	Pass
	- voltage drop measured (mV) (5 th deflection)	1,03	1,10	1,21	Pass
	- voltage drop measured (mV) (6 th deflection)	0,87	0,88	0,91	Pass
	- voltage drop measured (mV) (7 th deflection)	1,31	1,35	1,41	Pass
	- voltage drop measured (mV) (8 th deflection)	0,88	0,83	0,89	Pass
	- voltage drop measured (mV) (9 th deflection)	0,91	0,80	0,81	Pass
	- voltage drop measured (mV) (10 th deflection)	0,95	0,80	0,82	Pass
	- voltage drop measured (mV) (11 th deflection)	0,81	1,04	1,06	Pass
	- voltage drop measured (mV) (12 th deflection)	1,21	1,03	1,08	Pass
	- requirement: $\leq 2,5$ mV				Pass
14.2	Tumbling barrel (for < 50 g): 50 falls; after the test no damage				Pass
14.3	Impact test (for > 50 g): 10 blows:				N.A.
	- height of fall: 7,5 cm				N.A.
	- height of fall: 10 cm				N.A.
	- height of fall: 20 cm				N.A.
	- height of fall: 25 cm				N.A.
	After the test, no damage and live parts shall not become accessible				N.A.

15	TEMPERATURE RISE	Sample 7 – 8 – 9	
	Terminal	☒ single ☐ multiway	Pass
	T marking (°C).....	☐ Yes (°C):	N.A.
	Largest cross-sectional area (mm ²)	6 mm ²	
	Conductors.....	Solid	Pass
	Rated connecting capacity (mm ²).....	6 mm ²	
	Test current (A)	41 A	
	Temperature rise does not exceed 45 K (1)	solid 36,3 K / stranded 20,5 K	Pass
	Temperature rise does not exceed 45 K (2)	solid 40,3 K / stranded 24,5 K	Pass
	Temperature rise does not exceed 45 K (3)	solid 39,2 K / stranded 28,0 K	Pass
15.101	Universal, rigid conductors - 6 samples		N.A.
	Universal, flexible conductors - 6 samples		N.A.

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
	Non-universal, rigid solid conductors - 6 samples	Sample 10 – 11 – 12	Pass
	Non-universal, rigid stranded conductors - 6 samples		Pass
	Non-universal, flexible conductors - 6 samples		N.A.
	Temperature (°C).....	☒ 40 °C ☐ 80°C	
	Smallest cross-sectional area (mm ²).....	2,5 mm ²	
	Current (A)	24 A	
	Voltage drop after 192 cycles:		
	- requirement: 22,5 mV or 1,5 times 24th cycle value.....	>22,5 mV	
	- solid conductors.....	1) 13,2 mV 2) 12,5 mV 3) 14,8 mV	Pass
	- stranded conductors	1) 5,6 mV 2) 13,8 mV 3) 8,5 mV	N.A.
	- flexible conductors.....	1 2 3	N.A.
	Largest cross-sectional area (mm ²).....	6 mm ² (sample 13 – 14 – 15)	
	Current (A)	41 A	
	Voltage drop after 192 cycles:		
	- requirement: 22,5 mV or 1,5 times 24th cycle value.....	>22,5 mV	
	- solid conductors.....	1) 16,8 mV 2) 19,8 mV 3) 15,6 mV	Pass
	- stranded conductors	1) 16,5 mV 2) 13,5 mV 3) 18,5 mV	Pass
	- flexible conductors.....	1 2 3	N.A.
16	RESISTANCE TO HEAT	Sample 1 – 2 – 3	
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	Pass
	Ball-pressure test for parts not necessary to retain current-carrying parts in position; test temperature (°C)	☐ 70 °C ☐ 40 + T	N.A.

EN 60 998-2-2:2004 and IEC 60 998-2-2:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
	Diameter of impression not exceeding 2 mm	< 2 mm	Pass
17	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND Sample 1 – 2 – 3		
	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 5,9 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 5,9 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.
18	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT AND FIRE Sample 1 – 2 – 3		
	Glow-wire test (850 °C) for parts necessary to retain current-carrying parts in position	Thermoplastic Red and Grey insert	Pass
	Glow-wire test (650 °C) for parts not necessary to retain current-carrying parts in position	Thermoplastic Transparent cover	Pass
	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 1 – 2 – 3		
	50 drops, 175 V, solution A (IEC 60112): no flashover	PTI 175 V	Pass

Remarks

Push-wire connector for junction boxes; push-wire connection.

Terminal Blocks 2,5 – 6 mm², Series 773, Non-universal for solid or stranded conductors, Rated 400 V

Material specification:

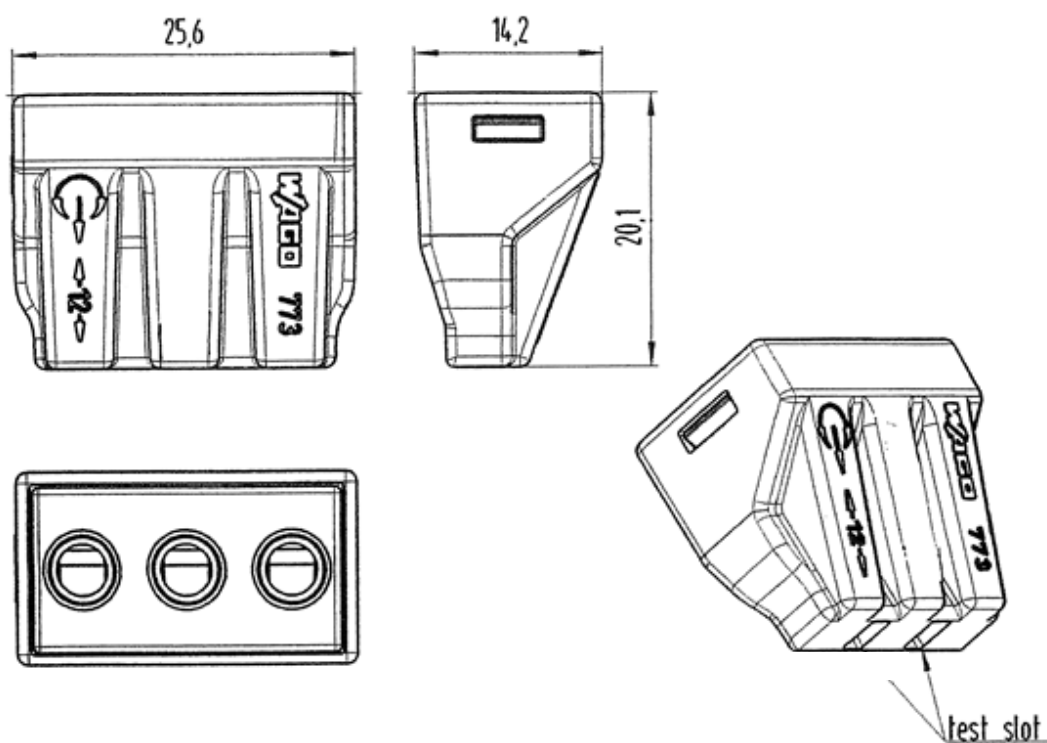
Type 773-173: Nos. of poles 3, Nos. of wires 1, Stripped length 12-13 mm, Transparent and red

Type 773-273: Nos. of poles 3, Nos. of wires 1, Stripped length 12-13 mm, Grey and red

Material specification: Copper (special tinned), stainless steel – PA, PC

Photo of Terminal Block type 773-173

Drawing of Terminal Blocks type 773.



Electrical Data	EN	UL / CSA
Nominal Voltage	400V/4kV/2	600V UL/CSA
Nominal Current	35A	30A
Technical Data		
Conductor Size	AWG 14-10	2,5mm-6mm
Conductor Type	solid and stranded (≤ 19 strands)	
Stripped Length	12-13 mm	
Material specification		
	copper (special tinned), stainless steel,	
	PA, PC	