

# CERTIFICATE OF COMPLIANCE

Certificate Number 20190930-E45172  
Report Reference E45172-20090227  
Issue Date 2019-SEPTEMBER-30

Issued to: WAGO Kontakttechnik GmbH & Co. KG  
Hansastraße 27  
32423 Minden GERMANY

This certificate confirms that representative samples of Component - TERMINAL BLOCKS  
SEE ADDENDUM PAGE FOR MODELS

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: UL1059 - STANDARD FOR TERMINAL BLOCKS, CAN/CSA C22.2 No. 158-10 - Terminal Blocks.

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

## MODELS:

USR and CNR, Component - Terminal Blocks, Series 2000 followed by -12, -13, -14 followed by -01, 02, 03, 04, 05, 06, 08, 09.

USR and CNR, Component - Terminal Blocks, Series 2000 followed by 21 followed by 41, 42, 44, 45.

USR and CNR, Component – Terminal Blocks, Series 2000 followed by 22, followed by 01, 02, 03, 04, 05, 06, 08, 09, 31, 32, 33, 34, 35, 36, 38, 39, may be followed by 099-000.

USR and CNR, Component – Terminal Blocks, Series 2000, Cat. Nos. 2000-5311, 2000-5311/1102-0950, 2000-5311/1101-0951, 2000-5310/0102-0000, 2000-5317/0101-0000, 2000-5310/1102-0950, 2000-5310/1101-0951, 2000-5317/0102-0000, 2000-5317/0101-0000, 2000-5317/1102-0950, 2000-5310/0101-0000, 2000-5372, 2000-5372/1102-0953, 2000-5377/0102-0000, 2000-5377/0101-0000, 2000-5352, 2000-5352/1102-0953, 2000-5357/0102-0000, 2000-5357/0101-0000, 2000-5410, 2000-5410/1102-0950, 2000-5410/1101-0951, 2000-5417, 2000-5417/1102-0950, 2000-5417/1101-0951, 2000-5477, 2000-5477/1102-0953, 2000-5457, 2000-5457/1102-0953, 2000-2201/352-000, 2000-2201/353-000, 2000-5362, 2000-5367/0101-0000, 2000-5367/0102-0000 and 2000-5321.

USR/CNR, Component – Terminal Blocks, PCTB, Series 2000 followed by -12, -13, -14 followed by 07.

USR and CNR, Component – Terminal Blocks, PCTB, Series 2000 followed by 22, followed by 07, 17, 18, 27, 28, 37, 47, 48, 57, 58 may be followed by 099-000.

USR and CNR, Accessories – Spring Type Plugs for Terminal Blocks Series 2000: Cat. No(s): 2000-510, 2000-511 and Spacer module 2000-549 and end-plates 2000-



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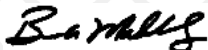
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5391, 2000-5491.



Bruce Mahrenholz, Director North American Certification Program

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File E45172  
Project 08CA55517

February 27, 2009

REPORT

on

COMPONENT - Terminal Blocks

Wago Kontakttechnik GmbH & Co. Kg  
Minden, Germany

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## DESCRIPTION

## PRODUCT COVERED:

USR and CNR, Component - Terminal Blocks, Series 2000 followed by -12, -13, -14 followed by -01, 02, 03, 04, 05, 06, 08, 09.

USR and CNR, Component - Terminal Blocks, Series 2000 followed by 21 followed by 41, 42, 44, 45.

USR and CNR, Component - Terminal Blocks, Series 2000 followed by 22, followed by 01, 02, 03, 04, 05, 06, 08, 09, 31, 32, 33, 34, 35, 36, 38, 39, may be followed by 099-000.

USR and CNR, Component - Terminal Blocks, Series 2000, Cat. Nos. 2000-5311, 2000-5311/1102-0950, 2000-5311/1101-0951, 2000-5310/0102-0000, 2000-5317/0101-0000, 2000-5310/1102-0950, 2000-5310/1101-0951, 2000-5317/0102-0000, 2000-5317/0101-0000, 2000-5317/1102-0950, 2000-5310/0101-0000, 2000-5372, 2000-5372/1102-0953, 2000-5377/0102-0000, 2000-5377/0101-0000, 2000-5352, 2000-5352/1102-0953, 2000-5357/0102-0000, 2000-5357/0101-0000, 2000-5410, 2000-5410/1102-0950, 2000-5410/1101-0951, 2000-5417, 2000-5417/1102-0950, 2000-5417/1101-0951, 2000-5477, 2000-5477/1102-0953, 2000-5457, 2000-5457/1102-0953, **2000-2201/352-000, 2000-2201/353-000, 2000-5362, 2000-5367/0101-0000, 2000-5367/0102-0000 and 2000-5321.**

USR/CNR, Component - Terminal Blocks, PCTB, Series 2000 followed by -12, -13, -14 followed by 07.

USR and CNR, Component - Terminal Blocks, PCTB, Series 2000 followed by 22, followed by 07, 17, 18, 27, 28, 37, 47, 48, 57, 58 may be followed by 099-000.

USR and CNR, Accessories - Spring Type Plugs for Terminal Blocks Series 2000: Cat. No(s): 2000-510, 2000-511 and Spacer module 2000-549 and end-plates 2000-5391, 2000-5491.

## GENERAL CHARACTER AND USE:

The terminal blocks covered by this Report are intended for use in the following applications and within the ratings specified.

## RATINGS:

Application -  
Commercial appliances (such as business and EDP equipment, etc.)  
General industrial (such as motor controllers, pushbutton stations, etc.)

## Terminal Type -

Front	Back
Push-In Type (Wire Secured by Spring Type Action)	Push-In Type (Wire Secured by Spring Type Action)

Type Wiring - Factory and Field wiring

## Ratings:

Series	Wire Range, AWG	Wire Type, Cu	FW	Voltage V	Current A	UG	CA
2000 followed by -12, 13, -14 followed by -01, 02, 03, 04, 05, 06, 08, 09; may be followed by 099-000  2000 followed by 22, followed by 01, 02, 03, 04, 05, 06, 08, 09, 31, 32, 33, 34, 35, 36, 38, 39, may be followed by 099-000.	24-14 SOL/STR	CU	2	600	15	B,C	2(105),4
2000 followed by 22, followed by 01, 02, 03, 04, 05, 06, 08, 09, 31, 32, 33, 34, 35, 36, 38, 39; <b>2000-2201/352-000, 2000-2201/353-000</b>	24-14 SOL/STR	CU	2	300	15	B,C	2(105),4
2000 followed by -12, 13, -14 followed by 07;  2000 followed by 22, followed by 07, 37; may be followed by 099-000	24-14 SOL/STR	CU	2	-	-	B,C	2(105),4
2000 followed by 22, followed by 17, 18, 27, 28, 47, 48, 57, 58 (3)	24-14 SOL/STR	CU	2	300	15	B,C	2(105),4
2000 followed by 22, followed by 17, 18, 27, 28, 47, 48, 57, 58, followed by 099-000 (3)	24-14 SOL/STR	CU	2	600	15	B,C	2(105),4
2000 followed by 21 followed by 41, 42, 44, 45.	24-14 SOL/STR	CU	2	600	15	B,C	2(105),4
*2000-5311, 2000-5372, <b>2000-5310/0101-0000(2)</b> , 2000-5310/0102-0000(2), 2000-5317/0101-0000(2), 2000-5317/0102-0000(2), <b>2000-5367/0101-0000(2)</b> , <b>2000-5367/0102-0000(2)</b> , 2000-5377/0102-0000(2), 2000-5377/0101-0000(2), 2000-5410(2), 2000-5417(2), 2000-5477(2), <b>2000-5362, 2000-5321</b>	24-14 SOL/STR	CU	2	300	15	B,D #	2(105),4

Series	Wire Range, AWG	Wire Type, Cu	FW	Voltage V	Curren t A	UG	CA
* 2000-5311/1102-0950, 2000-5311/1101-0951, 2000-5310/1102-0950(2), 2000-5310/1101-0951(2), 2000-5317/1102-0950(2), 2000-5372/1102-0953, 2000-5410/1102-0950, 2000-5410/1101-0951, 2000-5417/1102-0950(2), 2000-5417/1101-0951(2), 2000-5477/1102-0953(2)	24-14 SOL/STR	CU	2	24	15	B, D #	2(105), 4
2000-5352, 2000-5457(2), 2000-5357/0102-0000(2), 2000-5357/0101-0000(2)	22-12 SOL/STR (load) / 22-14 SOL/STR (line)	CU	2	300	20 (load) / 2 x 10 (line)	B, D #	2(105), 4
2000-5352/1102-0953, 2000-5457/1102-0953(2)	22-12 SOL/STR (load) / 22-14 SOL/STR (line)	CU	2	24	20 (load) / 2 x 10 (line)	B, D #	2(105), 4
2000 followed by -510,	24-16 SOL/STR	CU	2	300	10	B, C	2(105), 4
-511.	24-16 SOL/STR	CU	2	600 (1)	10	B, C	2(105), 4

Strip Length: 9-11 mm

Note 1 - these ratings are applicable when the Spring Type Plugs Cat. No(s) :  
2000-510, 2000-511 are provided with Spacer module  
Cat. No. 2000-549.

Note 2 - These Cat. Nos. have selected terminals approved as Protective Conductor Terminal Block which are marked accordingly. For these terminals the voltage and current shall not be assigned.  
Remaining terminals have assigned electrical ratings, as specified

Note 3 - These Cat. Nos. are multi-deck terminal blocks which are combination of Protective Conductor Terminal Blocks and Terminal Blocks rated 600V and less. Voltage and current ratings relate to normal carrying decks

Note # - These limited ratings are applicable to a terminal block for use in or with industrial control equipment whereby the load on any single circuit of the terminal block does not exceed 15 A at 51-150 V, 10 A at 151-300 V, or 5 A at 301-600 V, or the maximum ampere rating, whichever is less.

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**\*Replacement page**

## NOMENCLATURE:

Example:  $\frac{2000}{A}$   $\frac{-12}{B}$   $\frac{01}{C}$

A - Basic Construction

B - Number of wire terminations  
-12 - 2 wire terminations  
-13 - 3 wire terminations  
-14 - 4 wire terminations

C - Color Code

01 - Gray  
02 - Orange  
03 - Red  
04 - Blue  
05 - Black  
06 - Yellow  
07 - Green / Yellow (indicating PCTB)  
08 - White  
09 - Light Gray

Example: 2000 -22 01 099-000  
A B C D

A - Basic Construction

B - Number of wire terminations and decks  
-22 - 2 wire terminations, 2 decks

C - With Marking Carrier - 31, 32, 33, 34, 37, 38, 39, 47, 48, 57, 58

Without Marking Carrier - 01, 02, 03, 04, 07, 08, 09, 17, 18, 27, 28

Where the last digit indicates the following color code:

1 - Gray  
2 - Orange  
3 - Red  
4 - Blue  
5 - Black  
6 - Yellow  
7 - Green / Yellow (indicating PCTB)  
8 - White  
9 - Light Gray

D - 099-000 - With End Plate

\* /352-000 - Lower Level-Black printing, Upper Level-Red printing.

/353-000 - Lower Level-Yellow printing, Upper Level-White printing.

Example:  $\frac{2000}{A}$   $\frac{-21}{B}$   $\frac{41}{C}$

A - Basic Construction

B - Number of wire terminations and decks  
-21 - double terminal, 4 wire terminations

C - Color Code  
41 - Grey  
42 - Orange  
44 - Blue  
45 - Black

Nomenclature code for models 2000-53XX and 2000-54XX:

Cat. Nos.	Description and specific feature	Ill No.
2000-5391	End-plate, dedicated for models 2000-53XX.	14
2000-5491	End-plate, dedicated for models 2000-54XX.	15
2000-5311	2-poles, 4-terminals devices, suitable for PNP sensors, <b>grey housing.</b>	16
<b>2000-5362</b>	<b>2-poles, 4-terminals devices, suitable for PNP sensors, orange housing.</b>	
<b>2000-5321</b>	<b>2-poles, 4-terminals devices, suitable for PNP sensors, without printing of wire entries.</b>	
2000-5311/ 1102-0950	2-poles, 4-terminals devices, with two LED's, suitable for PNP sensors	
2000-5311/ 1101-0951	2-poles, 4-terminals devices, with two LED's, suitable for NPN sensors	17
2000-5310/ 0102-0000	2-poles, 4-terminals devices, suitable for PNP sensors, provided with grounding foot	
2000-5310/ 0101-0000	2-poles, 4-terminals devices, suitable for NPN sensors, provided with grounding foot	
2000-5310/ 0102-0950	2-poles, 4-terminals devices, with two LED's, suitable for PNP sensors, provided with grounding foot	
2000-5310/ 0101-0951	2-poles, 4-terminals devices, with two LED's, suitable for NPN sensors, provided with grounding foot	
2000-5317/ 0102-0000	2-poles, 4-terminals devices, suitable for PNP sensors, provided with grounding foot, <b>grey color</b>	
<b>2000-5367/ 0102-0000</b>	<b>2-poles, 4-terminals devices, suitable for PNP sensors, provided with grounding foot, orange color</b>	
2000-5317/ 0101-0000	2-poles, 4-terminals devices, suitable for NPN sensors, provided with grounding foot, <b>grey color</b>	
<b>2000-5367/ 0101-0000</b>	<b>2-poles, 4-terminals devices, suitable for NPN sensors, provided with grounding foot, orange color</b>	
2000-5317/ 1102-0950	2-poles, 4-terminals devices, with two LED's, suitable for PNP sensors, provided with grounding foot	
2000-5317/ 1101-0951	2-poles, 4-terminals devices, with two LED's, suitable for NPN sensors, provided with grounding foot	
2000-5372	2-poles, 4-terminals devices, suitable for PNP sensors, provided with internal connection	18
2000-5372/ 1102-0953	2-poles, 4-terminals devices, suitable for PNP sensors, with functional LED green, provided with internal connection	
2000-5377/ 0102-0000	2-poles, 4-terminals devices, suitable for PNP sensors, provided with internal connection and grounding foot	19
2000-5377/ 0101-0000	2-poles, 4-terminals devices, suitable for NPN sensors, provided with internal connection and grounding foot	

## Nomenclature code for models 2000-53XX and 2000-54XX: (cont'd)

Cat. Nos.	Description and specific feature	Ill · No.
2000-5352	2-poles, 4-terminals devices, suitable for PNP sensors, provided with internal connection	20
2000-5352/ 1102-0953	2-poles, 4-terminals devices, suitable for PNP sensors, with functional LED green, provided with internal connection	
2000-5357/ 0102-0000	2-poles, 4-terminals devices, suitable for PNP sensors, provided with internal connection and grounding foot	
2000-5357/ 0101-0000	2-poles, 4-terminals devices, suitable for NPN sensors, provided with internal connection and grounding foot	
2000-5410	3-poles, 6-terminals devices, suitable for PNP sensors, provided with grounding foot	21
2000-5410/ 1102-0950	3-poles, 6-terminals devices, with two LED's, suitable for PNP sensors	
2000-5410/ 1101-0951	3-poles, 6-terminals devices, with two LED's, suitable for NPN sensors	
2000-5417	3-poles, 6-terminals devices, suitable for PNP sensors, provided with grounding foot	
2000-5417/ 1102-0950	6-poles, 6-terminals devices, with two LED's, suitable for PNP sensors, provided with grounding foot	
2000-5417/ 1101-0951	3-poles, 6-terminals devices, with two LED's, suitable for NPN sensors, provided with grounding foot	
2000-5477	3-poles, 6-terminals devices, suitable for PNP sensors, provided with internal connection and grounding foot	22
2000-5477/ 1102-0953	3-poles, 6-terminals devices, suitable for PNP sensors, with functional LED green, provided with internal connection and grounding foot	
2000-5457	3-poles, 6-terminals devices, suitable for PNP sensors, provided with internal connection and grounding foot	23
2000-5457/ 1102-0953	3-poles, 6-terminals devices, suitable for PNP sensors, with functional LED green, provided with internal connection and grounding foot	

## TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Products designated USR have been investigated using requirements contained in UL 1059, the Standard for Terminal Blocks.

Products designated CNR have been investigated using requirements contained in Canadian Standard CSA C22.2 No. 158, Terminal Blocks.

## Conditions of Acceptability -

1. For use only in (or with) complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.
2. The insulating bodies are molded of polymeric materials, as specified in the Section General portion of this report except Terminal Blocks, Series 2000 followed by -21 followed by -41, 42, 44, 45, and cat. nos. 2000-53XX and 2000-54XX. They have a temperature rating of 105°C. The suitability of these materials shall be determined in the end use application.
  - 2A. The operating temperature of these devices should not exceed the temperature ratings of the insulating materials. These materials may be used interchangeably at a maximum temperature of 105°C.
3. The field wiring terminals of this terminal block have been evaluated using the Standard for Equipment Wiring Terminals For Use With Aluminum and/or Copper Conductors, UL 486E. The suitability of these terminals shall be determined in the end-use investigation.
4. These terminals are suitable for copper conductors only.
- \*5. Cat. Nos. 2000-1207, -1307, -1407, 2000-2237/099-000, 2000-2247/099-000, 2000-5310/0102-0000, 2000-5317/0101-0000, 2000-5317/0102-0000, 2000-5317/0101-0000, 2000-5377/0102-0000, 2000-5377/0101-0000, 2000-5410, 2000-5417, 2000-5477, 2000-5310/1102-0950, 2000-5310/1101-0951, 2000-5317/1102-0950, **2000-5310/0101-0000**, 2000-5417/1102-0950, 2000-5417/1101-0951, 2000-5477/1102-0953, 2000-5352, 2000-5457, 2000-5357/0102-0000, 2000-5357/0101-0000 and 2000-5457/1102-0953 have been evaluated as Protective Conductor Terminal Block, the use of these terminals shall be evaluated in the end use equipment.
6. The mounting suitability shall be evaluated in the end use application.
7. Models of Protective Conductor Terminal Block, as specified in Condition of Acceptability no. 5 except cat. nos. 2000-2237/099-000, and 2000-2247/099-000 have been considered suitable to be mounted on the following 35 mm DIN rails:
  - 35 x 7.5 mm, 1 mm thick, steel
  - 35 x 15 mm, 1.5 mm thick, steel
  - 35 x 15 mm, 2.3 mm thick, steel
  - 35 x 15 mm, 2.3 mm thick, copper
  - 35 x 7.5 mm, 1.5 mm thick, aluminium