

CERTIFICATE OF COMPLIANCE

Certificate Number 20190704-E185892
Report Reference E185892-20040510
Issue Date 2019-JULY-04

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

**This certificate confirms that
representative samples of**

COMPONENT - TERMINAL BLOCKS FOR USE IN ZONE
CLASSIFIED HAZARDOUS LOCATIONS

Refer 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: UL 60079-0, Explosive atmospheres – Part 0: Equipment – General requirements
UL 60079-7, Explosive Atmospheres – Part 7: Equipment protection by increased safety “e”
CAN/CSA-C22.2 No. 60079-0:15, Explosive atmospheres — Part 0: Equipment — General requirements
CAN/CSA C22.2 No. 60079-7:16, Explosive atmospheres — Part 7: Equipment protection by increased safety “e”

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

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



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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.

Terminal blocks, Series
2002-1201 through -1209,
2002-1301 through -1309,
2002-1401 through -1409,
2002-1207, -1307, -1407

Alternative suffixes:

-/000-001 indicating green colour
-/000-014 indicating brown colour
-/000-015 indicating gentian blue color

2002-6301 through -6309,
2002-6401 through -6409,

2002-2201 through -2204
2002-2206 through -2209
2002-2231 through -2239
2002-2207, -2217, -2227, -2247, 2257,

Alternative suffixes:

-/999-950 indicating internal connection between lower and upper tiers,
valid only for models 2002-2207 and 2237.

2002-2401 through -2409,
2002-2407 may be followed by /999-950
2002-2431 through -2439
2002-2437 may be followed by /999-950
2002-2417, -2427, -2447, -2457

2002 followed by -2701, -2702, -2703, -2704, -2708, -2709
2002-2707, may be followed by /0999-0950
2002-2717, -2727

2002-3201, -3203, -3204
2002-3206 through -3209
2002-3231, -3233, -3234,
2002-3236 through -3239



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2002-3217,-3227,-3247,-3257

Alternative suffixes:

-/999-950 indicating internal connection between all tiers,
valid only for models 2002-3207 and 3237.

-/402-000 indicating internal connection between the upper tiers,
valid only for models 2002-3201 and 3231

-/350-000 indicating lower terminals marked brown and middle terminals
market violet, valid only for models 2002-3231.

for use in Class I, Zone 1, AEx eb IIC resp. Ex eb IIC Hazardous Locations.

Terminal blocks, Series

2002-1601 through -1604

2002-1661 through -1664 may be followed by suffix /0099-0000

2002-1671 through -1674 may be followed by suffix /0401-0000

2002-1701 through -1704, -1707

2002-1761 through -1764 may be followed by suffix /0099-0000

2002-1771 through -1774 may be followed by suffix /0401-0000

2002-1801 through -1804

2002-1861 through -1864 may be followed by suffix /0099-0000

2002-1871 through -1874 may be followed by suffix /0401-0000

2002-1901 through -1904, -1907

2002-1961 through -1964

2002-1971 through -1974 may be followed by suffix /0401-0000

2002-2661, -2662, -2667, -2671, -2672, may be followed by suffix /0099-0000

2002-2941, -2944, -2961, -2963

2002-2951, -2952, -2954 2002-2958, -2959 may be followed by suffix /0400-0000

2002-2971 through -2974

2002-1611 through -1614, -1711 through -1714, -1811 through -1814, -1911 through -1914, may be
followed by suffix /1000-0541, /1000-0542, /1000-0836 or /1000-0867

2002-2611 may be followed by suffix /1000-0541, /1000-0542, /1000-0836 or /1000-867,
2002-2612

for use in Class I, Zone 2, AEx ec IIC Gc resp. Ex ec IIC Gc Hazardous Locations.



Bruce Mahrenholz, Director North American Certification Program

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File E185892
Project 04NK12545

May 10, 2004

REPORT

On

TERMINAL BLOCKS FOR USE IN CLASS I,
ZONE 0, 1 AND 2 HAZARDOUS LOCATIONS

Wago Kontakttechnik GmbH
Minden, Fed. Rep. Germany

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DESCRIPTION

PRODUCT COVERED:

USR, CNR Terminal blocks, Series

2002-1201 through -1209,

2002-1301 through -1309,

2002-1401 through -1409,

2002-1207,-1307,-1407

Alternative suffixes:

-/000-001 indicating green colour

-/000-014 indicating brown colour

-/000-015 indicating gentian blue color

2002-6301 through -6309,

2002-6401 through -6409,

2002-2201 through -2204

2002-2206 through -2209

2002-2231 through -2239

2002-2207,-2217,-2227,-2247, 2257,

Alternative suffixes:

-/999-950 indicating internal connection between lower and upper tiers,
valid only for models 2002-2207 and 2237.

2002-2401 through -2409,

2002-2407 may be followed by /999-950

2002-2431 through -2439

2002-2437 may be followed by /999-950

2002-2417, -2427, -2447, -2457

2002 followed by -2701, -2702, -2703, -2704, -2708, -2709

2002-2707, may be followed by /0999-0950

2002-2717, -2727

2002-3201, -3203, -3204

2002-3206 through -3209

2002-3231, -3233, -3234,

2002-3236 through -3239

2002-3217,-3227,-3247,-3257

Alternative suffixes:

-/999-950 indicating internal connection between all tiers,
valid only for models 2002-3207 and 3237.

-/402-000 indicating internal connection between the upper tiers,
valid only for models 2002-3201 and 3231

-/350-000 indicating lower terminals marked brown and middle terminals
market violet, valid only for models 2002-3231.

for use in Class I, Zone 1, AEx **eb IIC** resp. Ex **eb IIC** Hazardous
Locations.

USR, CNR Terminal blocks, Series

2002-1601 through -1604

2002-1661 through -1664 **may be followed by suffix /0099-0000**

2002-1671 through -1674 may be followed by suffix /0401-0000

2002-1701 through -1704, -1707

2002-1761 through -1764 **may be followed by suffix /0099-0000**

2002-1771 through -1774 may be followed by suffix /0401-0000

2002-1801 through -1804

2002-1861 through -1864 **may be followed by suffix /0099-0000**

2002-1871 through -1874 may be followed by suffix /0401-0000

2002-1901 through -1904, -1907

2002-1961 through -1964

2002-1971 through -1974 may be followed by suffix /0401-0000

2002-2661, -2662, -2667, -2671, -2672, may be followed by suffix /0099-0000

2002-2941, -2944, -2961, -2963

2002-2951, -2952, -2954 2002-2958, -2959 **may be followed by suffix /0400-0000**

2002-2971 through -2974

2002-1611 through -1614, -1711 through -1714, -1811 through -1814, -1911 through -1914, may be followed by suffix /1000-0541, /1000-0542, /1000-0836 or /1000-0867

2002-2611 **may be followed by suffix /1000-0541, /1000-0542, /1000-0836 or /1000-867,**

2002-2612

*

for use in Class I, Zone 2, AEx ec IIC Gc resp. Ex ec IIC Gc Hazardous Locations.

GENERAL:

These devices provide screwless terminals of the cage clamp type. They can be mounted by snap-in or rail methods. The devices are suitable for industrial use within the ratings specified below.

For factory and field wiring unless otherwise indicated.

RATINGS:

Type	Use/voltage	Hazardous Locations use voltage	Current	Wire range
2002-12** -13**, -14**, -63**, -64** (1 tier)	General Industrial/ 600	500 (rated) 550 (max)	20	22-12
2002 2002-22** or -32** (2 and 3 tier)	Note 1/ 500	440	20	22-12
2002-160, -167*, -170*, -177*, -180*, -187*, -190*, -196*, -197*, -197*/0401-000, -167*/0401-000, -177*/0401-000, -187*/0401-000##	General Industrial/ 300	300 (max)	15	22-12
2002-166*, -176*, -186* may be followed by /0099-0000 #####	General Industrial/ 300	300 (max)	15	22-12
2002-2661, 2002-2662, 2002-2667, 2002-2671, 2002-2672	General Industrial/ 300	300 (max)	15	22-12
2002-2661, 2002-2662, 2002-2667, 2002-2671, 2002-2672 followed by /0099-0000 #####	General Industrial/ 600	600 (max)	15	22-12
*2002-2941, 2002-2944, 2002-2969, 2002-2961, 2002-2963	General Industrial/ 300	300 (max)	15	22-12
2002-2951, 2002-2952, 2002-2954, 2002-2958, May be followed by /0400- 0000	General Industrial/ 300	300 (max)	15	22-12

RATINGS Cont.:

Type	Use/voltage	Hazardous Locations use voltage	Current	Wire range
2002-2971, 2002-2972, 2002-2973	General Industrial/ 300	300 (max)	15	22-12
2002-161X/1000-541, 2002-171X/1000-541, 2002-181X/1000-541, 2002-191X/1000-541,	General Industrial/ 30	30	6.3	22-12
2002-161X/1000-542, 2002-171X/1000-542, 2002-181X/1000-542, 2002-191X/1000-542	General Industrial/ 65	65	6.3	22-12
2002-161X/1000-867, 2002-181X/1000-867, 2002-191X/1000-867	General Industrial/ 120	120	6.3	22-12
2002-161X/1000-836, 2002-181X/1000-836, 2002-191X/1000-836	General Industrial/ 250	250	6.3	22-12
2002-2611/1000-0541	General Industrial/ 30	30	6.3	22-12
2002-2611/1000-0542	General Industrial/ 65	65	6.3	22-12
2002-2611/1000-836	General Industrial/ 230	230	6.3	22-12
2002-2611/1000-867	General Industrial/ 120	120	6.3	22-12
2002-2611, 2002-2612	General Industrial/ 300	300 (max)	6.3	22-12
2002-1707, 2002-1907	N/A	N/A	N/A	22-12
2002-240X, 2002-243X, 2002-270X	General Industrial/ 600	550	20	22-12
2002-2407, 2002-2437, 2002-2707	N/A	N/A	N/A	22-12
2002-2417, 2002-2427, 2002-2447, 2002-2457	General Industrial/ 300	U 300	U 20	22-12
		L N/A	L N/A	
2002-2717, 2002-2727	General Industrial/ 600	U 550	U 20	22-12
		L N/A	L N/A	

U= Upper deck; L= lower deck

Note 1 - See C of A 9

*Note ## - Optional suffix /0401-000 indicates disconnection means by mechanical interlock instead of moveable knife.

Note ##### - suffix /0099-0000 indicating integrated endplate which increases the spacings for 600 V General industrial use and 600V (max) for use in Hazardous Locations.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE'S USE) :

Use - For use only in or with products where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Product is Recognized in accordance with the following Standards for use in the United States and Canada:

**UL 60079-0 Electrical Apparatus for Explosive Gas Atmospheres
- Part 0: General Requirements.**

**UL 60079-7 Electrical Apparatus for Explosive Gas Atmospheres
- Part 7: Increased Safety 'e'.**

UL 1059 - Terminal Blocks.

**CAN/CSA-C22.2 No. 60079-0, Explosive atmospheres - Part 0: Equipment -
General requirements.**

* CAN/CSA C22.2 No. 60079-7, Explosive atmospheres - Part 7: Equipment
protection by increased safety "e".

CSA C22.2 No. 158, Terminal Blocks

NOTE: The products are recognized R/C (XCFR2/8) for Ordinary Locations
under the applicant's File E45172, Vol. 1, Sec. 40, Issued: 2004-03-
27.

CONDITIONS OF ACCEPTABILITY -

- *1. The insulating bodies are molded as described in **Section General. of this File**. The use of this material shall be judged in the end use application.
2. The terminal blocks were evaluated for use in an enclosure with a minimum rating of IP54. The suitability of the end application enclosure as an increased safety enclosure shall be considered.
3. The temperature code is to be determined as part of the end-use application.
4. 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.
5. These terminals are suitable for copper conductors only.
6. For the terminals installation, the suitability of the carrier rail shall be determined in the end application.
7. Leads connected to the terminals shall be insulated for the appropriate voltage and this insulation shall extend to within 1 mm of the metal of the terminal throat.
8. Cat. No. 2002-1207, -1307, -1407, -1707, -1907 -2207, -2217, -2227, -2237, -2247, -2257, **-2407, -2417, -2427, -2437, -2447, -2457, -2707**, -3207, -3217, -3227, -3237, -3247, -3257, -6307 and -6407 have been evaluated as Protective Conductor Terminal Block, the use of these terminals shall be evaluated in the end use equipment.
9. The 2 and 3 tier devices have been judged on the basis of the required spacings in the Standard UL 508 for Industrial Control Equipment, paragraph 39, which covers the end-use-product for which the component was designed.
10. The devices 2002-191X/1000-867, 2002-191X/1000-836, 2002-191X/1000-541, 2002-191X/1000-542, 2002-2611, 2002-2611/1000-0541, 2002-2611/1000-0542, 2002-2611/1000-836, 2002-2611/1000-867 and 2002-2612 are intended for use with 5x20 mm miscellaneous fuses. The suitability of the fuses shall be determined in the end-use. They are not intended for branch circuit protection. Markings concerning fuse replacement and location shall be considered in the end-use products.
- 10A. The devices 2002-198X and 2002-198X/1000-4XX are intended for use with 10A automotive fuses. The suitability of the fuses shall be determined in the end-use. They are not intended for branch circuit protection. Markings concerning fuse replacement and location shall be considered in the end-use products.

11. The suitability of accessories like end-stops, strain-relief plates, marking strips, test plug adaptors, shorting bus, bridges, jumpers, stack-mounting hardware, etc. shall be determined in the final combination.
12. These devices or their single modules may be combined to strips designated as 2002-xxxx followed by an optional suffix /yyyy-zzzz where x, y, z are any customer number or digit (including characters), given for a specific end-use purpose.
13. Item numbers may be denoted with or without leading zeroes, e.g. 2002-1201/000-001 or 2002-1201/0000-0001.