

File E185892  
Project 4788057888

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REPORT

on

COMPONENT -  
Terminal Blocks for Use in Zone Classified Hazardous Locations

Wago Kontakttechnik GmbH & Co KG  
Minden, Germany

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DESCRIPTION

PRODUCT COVERED:

USR and CNR, Component - Terminal Blocks, Series 2004 followed by -12, -13 or -14 followed by -01 thru -06 and -09.

Protective conductor Terminal Blocks, Series 2004-1207, -1307 or -1407

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

Type	Use/voltage	Hazardous Locations use voltage	Current	Wire range
2004-1201 through -1206, -1209	Industrial General 600V	500V rated 550V max.	30	20-10 SOL/STR
2004-1301 through -1306, -1309	Industrial General 600V	500V rated 550V max.	30	20-10 SOL/STR
2004-1401 through -1406, -1409	Industrial General 600V	500V rated 550V max.	30	20-10 SOL/STR
2004-1207, -1307, -1407	N/A	N/A	N/A	20-10 SOL/STR

NOTE: The products are also recognized R/C (XCFR2/8) for Ordinary Locations under the applicant's File E45172, Vol. 1, Sec. 47, Issued: 2005-03-07. Should the above mentioned Procedure Files be withdrawn, labeling under this Procedure must be discontinued until authorization to resume is received. In case of any discrepancy between this file and file E45172, Vol. 1, Sec. 47 this file has precedence.

## ENVIRONMENTAL RATINGS:

Service temperature range:  $-55^{\circ}\text{C} < T_s < +85^{\circ}\text{C}$

## NOMENCLATURE:

Example:  $\frac{2004}{A}$   $\frac{-13}{B}$   $\frac{01}{C}$

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)

09 - Light Gray

## 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 UL LLC (UL).

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'.

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".

NOTE: The products are recognized R/C (XCFR2/8) for Ordinary Locations under the applicant's File E45172, Vol. 1, Sec. 47, Issued: 2005-03-07.

## CONDITIONS OF ACCEPTABILITY -

1. The insulating bodies are molded as specified in File E45172, Vol. 1, Sec. 47, Issue date: 2005-05-23. They have a temperature rating of min. 105°C. The suitability of these materials shall be determined in the end use application.
2. 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 and at a minimum temperature of -55°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. No. 2004-1207, -1307 and -1407, 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. 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.