File E185892

Project 06NK30098

April 20, 2007

REPORT

on

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

Wago Kontakttechnik GmbH
Minden, Fed. Rep. Germany

DESCRIPTION

PRODUCT COVERED:

USR Terminal blocks, Series 2010 followed by -12 thru -13 followed by –01 thru -09, for use in Class I, Zone 1, AEx e II Hazardous Locations.

CNR Terminal blocks, Series 2010 followed by -12 thru -13 followed by –01 thru -09, for use in Class I, Zone 1, Ex e II 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 general industrial use within the ratings specified below.

For factory and field wiring unless otherwise indicated.

RATINGS:

Type	General Industrial use voltage	Hazardous Locations use voltage	Current	Wire range, AWG
2010	600	500 (rated) 550 (max)	65	20-6

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.

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

UL 1059 – Terminal Blocks.

UL 60079-0 Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements, **Edition 6.**

UL 60079-7 Electrical Apparatus for Explosive Gas Atmospheres – Part 7: Increased Safety ’e’, **Edition 4, Rev. 2013-05-31**

CNR marked Product is Recognized in accordance with the following Standards for use in Canada:

CAN/CSA-C22.2 No. 60079-0:11, Explosive atmospheres — Part 0: Equipment — General requirements

CAN/CSA C22.2 No. 60079-7:12, Explosive atmospheres — Part 7: Equipment protection by increased safety “e”.

CAN/CSA C22.2 No. 158-10, Third Edition, issued March 2010, Terminal Blocks

NOTE: The products are recognized R/C (XCFR2/8) for Ordinary Locations under the applicant’s E45172, Vol. 1, Sec. 50, Issued: 2006-11-29.

CONDITIONS OF ACCEPTABILITY -

1. The insulating bodies are molded as described in File E45172, Vol. 1, Sec. 50, Report dated **November** 29, 2006, and have a temperature index of 105°C. 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. 2010-1207 and -1307 have been evaluated as Protective Conductor Terminal Block, the use of these terminals shall be evaluated in the end use equipment.

MARKING:

The marking of the terminal blocks shall include:

1. The manufacturer's name or trademark.

2. The type number.

3. The designation **for USR:** AEx **eb** II **or AEx e II Gb and for CNR: Ex eb II U or Ex e II U Gb** (may appear on smallest container).

4. The wire range, ampere, and voltage ratings - also to be specified in descriptive documents.