File E185892

Project 04NK14185

June 26th, 2004
Revised: February 26, 2010

REPORT

on

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

Wago Kontakttechnik GmbH
*Minden, Germany

DESCRIPTION

PRODUCT COVERED:

*USR/CNR Terminal blocks, Series 2016 followed by **-12 or** -13 followed by -01 thru -09, for use in Class I, Zone 1, AEx **eb IIC**, 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 general industrial use within the ratings specified below.

For factory and field wiring unless otherwise indicated.

Note: The products are also recognized R/C (XCFR2/8) for ordinary Locations under the applicant's File E45172, Vol. 1, Sec. 42, Issued: 2004-06-30. Should the above mentioned Procedure Files be withdrawn, labeling under this Procedure must be discontinued until authorization to resume is received.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. 42 this file has precedence.

RATINGS:

Type	General Industrial use voltage	Hazardous Locations use voltage	Current	Wire range, AWG
2016 **(1)**	600	500 (rated) 550 (max)	85	20-4

Note 1, Cat nos. 2016-1207 and -1307, have been evaluated as protective conductor terminal blocks. No ampere or voltages ratings are assigned for these devises.

ENVRIONMENTAL RATINGS:

Service temperature range: -55°C < Ts < +85°C
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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:

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'

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

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

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

CONDITIONS OF ACCEPTABILITY -

1. The insulating bodies are molded as described in File E45172, Vol. 1, Sec. 42, Report dated June 30, 2004, and have a temperature index of **min**. 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. 2016-1207 and -1307 have been evaluated as Protective Conductor Terminal Block, the use of these terminals shall be evaluated in the end use equipment.