

File E184763
Project 4789197725

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REPORT

on

COMPONENT - Terminal Blocks for Use in Zone Classified Hazardous Locations -
Component

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Detmold, Germany

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DESCRIPTION

PRODUCT COVERED:

USR and CNR Recognized Component - Terminal Blocks, A2C 1.5, A2C 1.5 PE, A4C 1.5, A4C 1.5 PE, A3C 1.5, A3C 1.5 PE, A2T 1.5, A2T 1.5 FT-PE, A2T 1.5 VL, A2T 1.5 PE, A2C 2.5, A2C 2.5 PE, A3C 2.5, A3C 2.5 PE, A4C 2.5, A4C 2.5 PE, A2T 2.5, A2T 2.5 FT-PE, A2T 2.5 VL, A2T 2.5 PE, A3T 2.5, A3T 2.5 PE, A3T 2.5 FT-FT-PE, A3T 2.5 N-FT-PE, A3T 2.5 VL, AMC 2.5, AMC 2.5 800V, A2T 2.5 3C FT-PE, A2T 2.5 3C, A2T 2.5 3C VL, A2T 2.5 3C PE, A2C 4, A2C 4 PE, A4C 4, A4C 4 PE, A3C 4, A3C4 PE, A2T 4, A2T 4 FT-PE, A2T 4 VL, A2T 4 PE, A2C 6, A2C6 PE, A3C 6, A3C 6 PE, ALO 6, A2C 10, A2C 10 PE, A3C 10, A3C 10 PE, A2C 16, A2C 16 PE, A3C 16, A3C 16 PE, ALO 16 for use in Class I, Zone 1, AEx eb IIC and Class I, Zone 1, Ex eb IIC hazardous locations.

GENERAL:

The terminal blocks covered by this Report are 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:

Table 1

Cat. No.	Wire Range AWG	Wire Type, Cu	Voltage [V] Industrial general	Voltage [V] HazLoc	Current A	Stripping length
A3C 1.5 A4C 1.5 A2T 1.5 A2T 1.5 FT- PE A2T 1.5 VL	26-14	sol/str	600	440	5	8.3 mm
				300	13	
A2C 1.5	26-14	sol/str	600	550	5	8.3 mm
				300	13	
A2C 1.5 PE A3C 1.5 PE A4C 1.5 PE A2T 1.5 PE	26-14	sol/str	N/A	N/A	N/A	8.3 mm
A2C 2.5, A3C 2.5, A4C 2.5, A2T 2.5, A2T 2.5 VL A2C 2.5 /DT/FS	28-12	Sol/Str	600	550	20	10.7 mm
A2C 2.5 PE, A3C 2.5 PE, A4C 2.5 PE, A2T 2.5 PE, A2T 2.5 FT- PE, A2T 2.5 3C FT-PE (@), A2C 2.5 PE /DT/FS	28-12	Sol/Str	N/A	N/A	N/A	10.7 mm

Note @ - Only to Upper Current bar of model A2T 2.5 FT-PE has been assigned current rating 20A. Lower Current bar is dedicated for Grounding purpose.

Table 1 cont.

Cat. No.	Wire Range AWG	Wire Type, Cu	Voltage V Industrial general	Voltage V HazLoc	Current A	Stripping length
A3T 2.5, A3T 2.5 FT-FT-PE, A3T 2.5 N-FT-PE, A3T 2.5 VL, A2T 2.5 3C, A2T 2.5 3C VL	28-12	Sol/Str	300	300	20	10.7 mm
			600	550	10	
AMC 2.5	28-12	Sol/str	150	150	20	10.7 mm
			300	300	10	
AMC 2.5 800V	28-12	Sol/Str	600	440	20	10.7 mm
A3T 2.5 PE	28-12	Sol/str	N/A	N/A	N/A	10.7 mm
A2C 4, A3C 4, A4C 4, A2T 4, A2T 4VL, A2T 4 FT- PE°	26-10	Sol/Str	600	550	30	12.0mm +/-1.5mm
A2C 4 PE, A3C 4 PE, A4C 4 PE, A2T 4 PE	26-10	Sol/Str	N/A	N/A	N/A	12.0mm +/-1.5mm
A2C 6, A3C 6, ALO 6	22-8	Sol/Str	600	550	38	12.6 mm
A2C 6 PE, A3C 6 PE	22-8	Sol/Str	N/A	N/A	N/A	12.6 mm
A2C 10 A3C 10	20-6	Sol/Str for 20-10 AWG Str for 8 - 6 AWG	600	550	55	18.6 mm
A2C 10 PE A3C 10 PE	20-6	Sol/Str for 20-10 AWG Str for 8 - 6 AWG	N/A	N/A	N/A	18.6 mm
A2C 16 A3C 16 ALO 16	18-6	18-6 str, 18-10 sol	600	550	62	18 mm

Table 1 cont.

Cat. No.	Wire Range AWG	Wire Type, Cu	Voltage V Industrial general	Voltage V HazLoc	Current A	Stripping length
A2C 16 PE A3C 16 PE	18-6	18-6 str, 18-10 sol	N/A	N/A	N/A	18 mm

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:

USR investigated per Standards as follows:

UL 60079-0 EXPLOSIVE ATMOSPHERES - PART 0: EQUIPMENT - GENERAL REQUIREMENTS- Edition 7 - Issue Date 2019/03/26

UL 60079-7, 5th Ed., Rev. 2017-02-24, Explosive Atmospheres - Part 7: Equipment protection by increased safety "e"

CNR investigated per Standards as follows:

CAN/CSA C22.2 NO. 60079-0:19 EXPLOSIVE ATMOSPHERES - PART 0: EQUIPMENT - GENERAL REQUIREMENTS- Edition 4 - Issue Date 2019/02/01

CAN/CSA C22.2 No. 60079-7:16, Oct. 2016, Explosive atmospheres - Part 7: Equipment protection by increased

NOTE: The products are also recognized (XCFR2/7) for Ordinary Locations under the applicant's File E60693, Vol. 1. Refer to Table 2 for details.