File E14900
Project 4791422525

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REPORT

on

COMPONENT - FLAME ARREST-PROTECTED COMPONENTS FOR USE IN REFRIGERATION AND AIR-CONDITIONING EQUIPMENT EMPLOYING A2L REFRIGERANTS

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DESCRIPTION

PRODUCT COVERED:

USR, CNR – FLAME ARREST-PROTECTED COMPONENTS FOR USE IN REFRIGERATION AND AIR-CONDITIONING EQUIPMENT EMPLOYING A2L REFRIGERANTS

*Magnetic Motor Control Models Series 3RT20 followed by 15, 16, 17 or 18 followed by -1, -2 or -4 followed by a character, followed by a character and a number followed by 0, 1, 2, 3, 4, 6, 7 or 8 may be followed by suffix letters and/or numbers as described in the E31519, report issued 2009-10-29.

Magnetic Motor Control Models Series 3RT20 followed by 23, 24, 25, 26, 27 or 28 followed by 1, 2 or 4 followed by A, B, C, D, E, F, H, K, N or X followed by a character and a number, followed by 0, 1, 2, 3, 4 or 8 may be followed by suffix letters and/or numbers (Except Suffix "-8K") as described in the E31519, report issued 2009-11-18

Magnetic Motor Control Models Series 3RT20, followed by 35, 36, 37 or 38 followed by 1 or 3 followed by A, C, D, E, K, N, P, S, or X, followed by a character and a number, followed by 0, 3, 4, 5 or 8 may be followed by suffix letters and/or numbers as described in the E31519, report issued 2014-09-30.

Magnetic Motor Control Models Series 3RT20, followed by 45, 46, or 47 followed by 1, 3 or 6 followed by A, C, D, E, K, N, P, S, or X followed by a character and a number, followed by 0, 3, 4, 5, 6, or 8 may be followed by suffix letters and/or numbers as described in the E31519, report issued 2016-09-14.

Magnetic Motor Control Models Series 3RT10 followed by 54, 55 or 56 followed by -1, -2, -3, -6, -7, or -8 followed by A, B, C, L, N, P, Q, S or X followed by a character and a number followed by 0, 4, 5, 6 or 8, may be followed by Suffix Letters and/or numbers as described in the E31519, report issued 2000-08-21.

Magnetic Motor Control Models Series 3RT10 followed by 64, 65, 66 followed by -1, -2, -3, -5, -6, or -8 followed by A, B, C, L, N, P, Q, S or X followed by a character and a number followed by 0, 4, 5, 6 or 8 may be followed by Suffix Letters and/or numbers as described in the E31519, report issued 2001-04-26.

Magnetic Motor Control Models Series 3RT10 followed by 75 or 76 followed by -1, -2, -3, -5, -6, or -8 followed by A, B, C, L, N, P, Q, S or X followed by a character and a number followed by 0, 4, 5, 6 or 8 may be followed by Suffix Letters and/or numbers as described in the E31519, report issued 2001-04-27.

Obsolete Products (Retained for reference only): 3RT23, 3RT25 or 3RT26 followed by 15, 16, 17 or 18 followed by -1, -2 or -4 followed by a character, followed by a character and a number followed by 0, 1, 2, 3, 4, 6, 7 or 8 may be followed by suffix letters and/or numbers as described in the E31519, report issued 2009-10-29.

GENERAL:

These devices are open types 3 pole contactors for use in industrial applications listed by the Applicant under file E31519 and the constructions are controlled by the listings as noted above. They are intended for use in HVAC equipment which may utilize flammable refrigerants classified as A2L.

Note: USR = United States Standards – Recognized
CNR = Canadian National Standards - Recognized.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Conditions of Acceptability:

Considerations of Acceptability for use in UL/CSA 60335-2-40 applications employing A2L refrigerants -

1. These devices have been investigated as flame arrest-protected components for use in refrigeration and air-conditioning equipment operated in ordinary locations.

2. These devices have not been investigated for use in hazardous (classified) locations or for explosive atmosphere applications.

3. End product evaluation for these models have not been completely evaluated under UL 60335-2-40 / CSA C22.2 No. 60335-2-40 used in conjunction with UL 60335-1 / CSA C22.2 No. 60335-1. Only Annex JJ of UL 60335-2-40 / CSA C22.2 No. 60335-2-40 was evaluated. No assessment of UL 60335-2-40 cl. 22.117 has been conducted for exposure of flammable refrigerants to hot surfaces.

4. The listed contactor constructions are certified to UL 60947-1, UL 60947-4-1, CSA C22.2 No. 60497-1 and CSA C22.2 No. 60497-4-1. The acceptability of the contactors shall be determined in the end-use equipment.

5. Compliance for use within in close proximity of R32 refrigerant was determined with ignition test described Annex JJ.

   The ignition test was conducted using refrigerant R32 which has a burning velocity of 6.7 cm/s and is considered to be representative of other A2L refrigerants with equivalent or lower burning velocities.

6. Only the contactors identified in this report have been reviewed for compliance with Annex JJ. The acceptance of any other parts shall be determined in the end use application.