

and Report

DESCRIPTION

PRODUCT COVERED:

USR - Hermetic Cluster Block Series, Part Nos. 170851-1, 171370-1, -2, -3, -5, 1-171370-1, 368600, 84330, 316293, **316293-1**, and 1717289-1.

USR, CNR - Hermetic Cluster Block Series, Part Nos 171370-4, 171370-6, 1-171370-6, 2825082-1, 2825082-2 and assembly of 2364006-1, 2364007-1, 2364008-1, and 2364729-1.

General - These devices are for use with hermetic compressors rated 110-240 V ac, 50/60 Hz, single phase.

The components are forwarded to the end-use manufacturer in separate cartons. The end-use manufacturer attaches a suitable lead wire and assembles the connectors.

USR - Products designated USR have been investigated using US requirements as noted in the Test Record.

CNR - Products designated CNR have been investigated using Canadian requirements as noted in the Test Record.

RATINGS:

Cat. No.	Voltage Rating V ac/dc	Current Rating A	Wire Size AWG - Cu	
			str	sol
2825082-1, 2825082-2	--	--	16-20	--
assembly of 2364006-1, 2364007-1 and 2364008-1	--	--	--	Varnished, 20-25
171370-4 assembly with 5-170063-2 (@)	300	10	16	--
		7	18	--
		5	20	--
171370-5 assembly with 5-170063-1 (@1)	300	10	16	--
		7	18	--
		5	20	--
171370-6, 1-171370-6 assembly with 5-170063-2 (@1)	300	10	16	--
		7	18	--
		5	20	--
2364729-1	380	10	16	--
		9	18	--

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1. The lead wire material is suitable for the application.
2. The lead wires are suitably attached to the connectors.
3. The compressor operates at 1600 VA or less as determined by requirements of the applicable Standard.
- *4. Deleted.
5. The connector is employed with Fusite terminal or suitable equivalent terminals with 0.090 in and 0.125 in dia electrodes designed to project into connector approx but not more than 3/8 in.
- *6. Deleted
7. The connectors are only for use inside hermetic compressors.
8. The suitability of the insulating materials used in the molded bodies shall be judged in the end-use equipment.
- *9. The operating temperature of these devices should not exceed the temperature ratings of the insulating materials.
10. The contacts Cat. Nos. 316292,936009 and 316294 should be evaluated in the end-use. Conductor Secureness Testing has not been performed.
11. Connector Cat. No. 316293-1 molded of Valox 420 is rated for 480VAC based on Dielectric Voltage Withstand testing conducted at 1960VAC.
12. Connector Cat. No. 171370-4 have been subjected to the Temperature test with the rated currents and maximum temperature, maximum temperature rise values tabulated below.

Cat. No.	Current, A	Wire size (AWG)	Maximum Temperature, °C	Maximum Temperature Rise, °C
171370-4 assembly with 5-170063-2 mating with K2578	10	16	35.8	10.8
	7	18	39.7	14.7
	5	20	52.8	27.8

13. Connector Cat. No. 171370-4 is rated for 300VAC based on Dielectric Voltage Withstand testing conducted at 1600VAC.
14. Connector Cat. No. 171370-4 has been assessed with the mating connectors as tabulated below.

Series	Mating Connector Cat No.	Mating Connector Manufacturer
Cluster Block 3P Clip HSG	K2578	Qingdao Kwangyang Electronics Co., Ltd

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15. These devices are not suitable for interrupting the flow of current by connecting or disconnecting the mating connector.

16. Cat. Nos. 2825082-1 and 2825082-2 have not been subjected to the Temperature test and as a result do not have an assigned current rating. The device's current carrying capability is to be reviewed in the end-use by measuring temperatures on the connector housing and/or terminals when current is flowing through the connector under conditions of normal use.

17. Cat. Nos. 2825082-1 and 2825082-2 employ insulating materials with properties as tabulated below at the minimum thickness employed in the connector housing, the suitability of the insulating materials based on the documented values shall be determined in the end-use application. Please note the values specified in the table when multiple materials are indicated represent the minimum values for the group of materials.

Cat. No.	Insulating Material (#)	Measured Minimum Thickness	Flame Class	HWI	HAI	RTI Elec	Max Operating Temp, °C
2825082-1	A	0.8 mm	--	--	--	140	140
2825082-1	B	0.8 mm	HB	2	0	110	110
2825082-2	C	0.8 mm	V-0	1	0	130	130
assembly of 2364006-1, 2364007-1 and 2364008-1	A	0.45 mm	--	4	2	130	130
171370-6 1-171370-6	D	0.55 mm	V-0	0	0	130	130
2364729-1	B	0.8 mm	HB	2	0	130	130
1-171370-1	E	0.4	V0	--	--	150	150

Note:

(#) - Code for Insulating Body Material.

- A. RM No. 27127
1. Dielectric strength (kV/mm): 30
2. CTI: 0
- B. RM No. 2136383
1. Dielectric strength (kV/mm): 31
2. CTI: 1

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- C. RM No. 2136389
1. Dielectric strength (kV/mm): --
2. CTI: 0
- D. RM No. 236919
1. Dielectric strength (kV/mm): 18
2. CTI: 1
- E. RM No. 2481251**
1. Dielectric strength (kV/mm):--
2. CTI:0

18. Cat. Nos. 2825082-1 and 2825082-2 have been evaluated for use with crimp tool 2150527-2, Die No. 11-1048710. The suitability of use with any other crimp tool shall be an end product consideration.

19. For the assembly of 2364006-1, 2364007-1 and 2364008-1, 2364006-1 has been evaluated for use with crimp tool 2381401 as shown in ILL. 18. The suitability of use with any other crimp tool shall be an end product consideration.

20. Connector Cat. No. 2364729-1 has been subjected to the Temperature test with the rated currents and maximum temperature, maximum temperature rise values tabulated below.

Cat. No.	Current, A	Wire size (AWG)	Maximum Temperature, °C	Max Temperature Rise, °C
2364729-1 mated with HT-23B-FB-0-0	10	16	51.4	26.4
	9	18	51.3	26.3