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Project 93NK12637

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REPORT

on

**COMPONENT - THERMAL -LINKS**

Therm-O-Disc, Inc.  
Subsidiary of Emerson Electric Co.  
Mansfield, OH

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## DESCRIPTION

## PRODUCT COVERED:

USR/CNR Component - Thermal-link-link Assemblies.

Part Nos. G4A, G4C, G4D, E4A, E4C, E4D followed by A, M, P or S, followed by two digits 01 through 99, followed by two digits 00 through 99, may be followed by TF, followed by TTTC. Where TTT = 070, 072, **073**, 075, 077, 081, 084, 087, 091, 093, 098, 104, 110, 115, 117, 121, 125, 128, 134, 141, 144, 147, 152, 158, 167, 172, 184, 190, 192, 205, 216, 229 or 240. Part No. G5A, E5A, G5C, E5C followed by A, M, P or S followed by two digits 01 through 99, followed by two digits 00 through 99, may be followed by TF, followed by TTTC, where TTT=070, 072, **073**, 075, 077, 081, 084, 091, **093**, 098, 100, 104, 110, 115, 117, 121, 125, 128, 134, 141, 144, 147, 152, 158, 167, 172, 184, 190, 192, 205, 216, 229, 240. Part No. G7F, E7F followed by A, M, P or S followed by two digits 01 through 99, followed by two digits 00 through 99, may be followed by TF, followed by TTTC, where TTT=070, 075, 077, 081, 084, 087, 093, 098, 100, 110, 115, 117, 121, 125, 128, 134, 141, 144, 147, 152, 158, 167, 172, 184, 205.

## GENERAL CHARACTER:

These devices are nonresetting, thermal -link-link assemblies. The contact arrangement is SPST, normally closed. The thermal -links are intended to be used in appliances and may be constructed with a thermoplastic or ceramic housing which may be provided with a mounting tab.

RATING:

Temperature - "TTT" indicates functioning temperature (T<sub>f</sub>).

Number in "TTT" Position	Holding Temperature (TH), °C	Maximum Temperature Limit (TM), °C		
		G4/E4	G5/E5	G7/E7
070	-	130	175	125
072	57	100	175	-
073	58	100	175	-
075	-	125	190	125
077	62	125	200	125
081	-	125	200	125
084	69	125	200	125
087	-	140	-	140
091	76	140	215	-
093	78	140	215	140
098	83	140	215	140
100	-	---	215	130
104	89	150	225	-
110	95	150	225	140
115	-	160	235	140
117	102	160	250	150
121	106	160	250	150
125	-	185	250	150
128	113	160	-	150
134	-	205	250	-
141	126	205	250	175
144	129	175	250	150
147	-	205	-	-
152	137	175	250	175
158	-	240	285	200
167	152	210	285	200
172	-	240	350	200
184	169	210	350	200
190	-	310	350	-
192	177	210	350	210
205	-	310	375	300
216	200	240	350	-
229	200	275	350	-
240	200	275	350	-

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Electrical -

A. Overload Capacity Test Conditions -

Series Part No.	Continuous Ampere Rating						
	24 V dc	120 V ac		240 V ac		250 V ac	
		Res.	Ind.	Res.	Ind.	Res.	Ind.
G/E4AXXXRRTTTC	5	15	14	-	-	10	8
G/E4CXXXRRTTTC	5	15	14	-	-	10	8
G/E4DXXXRRTTTC	5	15	14	-	-	10	8
G5AXXXARRTTC	-	25	-	21	-	20	-
G5CXXXRRTTTC	-	-	-	-	-	16	-
G/E7FXXXRRTTTC	5	5	4.5	5	4.5	5	4.5

\*

B. Limited Short Circuit Test Conditions -

<u>Series Part No.</u>	<u>Maximum V ac</u>	<u>Circuit A</u>	<u>Power Factor</u>	<u>Line Fuse, A</u>	<u>Line Wire Size AWG, Copper</u>
G4AXXXRRTTTC, E4AXXXRRTTTC	250	200	Unity	20	14
G4CXXXRRTTTC, E4CXXXRRTTTC	-	-	-	-	-
G4DXXXRRTTTC, E4DXXXRRTTTC	120	200	Unity	20	14
G5AXXXRRTTTC, E5AXXXRRTTTC	250	200	Unity	20	14
G7FXXXRRTTTC, E7FXXXRRTTTC	240	200	Unity	15	14

\*

DESIGNATION SYSTEM:

Part No.	G	Z	X	X	XX	RR	TTTC
	I	II	III	IV	V	VI	VII
<u>Digit Position</u>							
<u>Designation</u>							

- I. G, E G, E - Global
- II. 4, 5 or 7 Refers to basic thermal -link type.
- III. A, C, D, F Refers to lead material and diameter and case material.
- IV. A, M, P or S Refers to modifications, such as assembly of parts, mounting or secondary operation. See the following table.
- V. XX, two digits (00 to 99) Refers to individualized packages as described on the following table.
- VI. RR, two digits assembly (00 to 99) Refers to minor revisions to basic described on the following table.
- VII. Three digits Temperature rating  $T_f$  in °C.