File E40667
Project 93NK12637

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REPORT

on

COMPONENT - THERMAL -LINKS

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

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_f).

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
G5AXXXARRTTTC	-	25	-	21	-	20	-
G5CXXXRRTTTC	-	-	-	-	-	16	-
G/E7FXXXRRTTTC	5	5	4.5	5	4.5	5	4.5

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B. Limited Short Circuit Test Conditions -

Series Part No.	Maximum V ac	Circuit A	Power Factor	Line Fuse, A	Line Wire Size AWG, Copper
G4AXXXRRTTTC, E4AXXXRRTTC	**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**

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DESIGNATION SYSTEM:

Part No.	G	Z	X	X	XX	RR	TTTC
	I	II	III	IV	V	VI	VII

Digit Position	Designation	
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 (00 to 99)	Refers to minor revisions to basic assembly described on the following table.
VII.	Three digits	Temperature rating T_f in °C.