File E41515 Project 89NK24244

February 16, 1990

REPORT

on

COMPONENT - INDUSTRIAL CONTROL EQUIPMENT, SWITCHES, INDUSTRIAL CONTROL

Omron Tateisi Electric Co. Osaka, Japan

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component, Type G5C, may be followed by E, followed by -1, may be followed by 4, may be followed by -TP may be followed by -H or -L,

may be followed by -ASI, may be followed by 3 V dc through 100 V dc, may be followed by additional letters and/or numbers.

Type G5CA, followed by -1A, may be followed by 4, may be followed by -TP, may be followed by -E, may be followed by -H, may be followed by -HA, may be followed by additional letter(s) and/or number(s).

GENERAL:

These devices are open magnetically operated single pole normally open relays. The are intended to be used in industrial control applications where the suitability of the combination has been determined by Underwriters Laboratories, Inc.

Ratings - They are rated:

Contact Ratings -

For Models without suffix "E"-

- 15 A, 125 V ac, General Purpose/Resistive, 100,000 c
- 10 A, 250 V ac, General Purpose/Resistive, 100,000 c
- 15 A, 250 V ac, resistive, 100,000 c
- 10 A, 30 V dc, resistive, 100,000 c
- 10 A, 250 V ac, resistive, 100,000 c, 85°C

For Models with suffix "E" -

- 15 A, 125 V ac, General Purpose/Resistive, 100,000 c
- 10 A, 250 V ac, General Purpose/Resistive, 100,000 c
- 15 A, 250 V ac, resistive, 100,000 c
- 10 A, 30 V dc, resistive, 100,000 c
- A300 Pilot Duty
- 1/3 hp, 120 V ac (100,000 c of endurance)
- 2200 VA, 240 V ac, Resistive, 100,000 cycles, 85° C ambient
- 9.2 A, 240 V ac, Resistive, 100,000 cycles, 95°C ambient

Coil Ratings -

3 V dc through 100 V dc

All contact ratings for models with suffix "HA" series are at $40\,^{\circ}\text{C}$ maximum ambient temperature.

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NOMENCLATURE:

They are designated:

I - Basic type designation

G5C

*II - Contact construction

*Blank - Standard type

*E - High capacity type

III - Number of poles

1 - SPST (NO contacts)

IV - Protective construction

Blank - Provided with flux tight

4 - Provided with plastic seal

V - Construction

Blank - Standard Type

TP - Provided with tab and printed circuit terminals

VI - Coil wattage

Blank - 200 mW (standard type)

- H - 150 mW

- L - 360 mW

*VII - Contact material (all types with or without gold plating.)

Blank - AgCdO ASI - AgSnIn

* VIII - Coil voltage

Blank - Marked on dust cover

3 V dc through 100 V dc

* IX - Optional suffixes for marketing purposes only

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NOMENCLATURE 2:

- Basic type designation with AgSnIn contact material with or without gold plating
- II Number of poles

1A - SPST (NO contacts)

III - Protective construction

Blank - Provided with flux tight 4 - Provided with plastic seal

IV - Construction

Blank - Standard Type
TP - Provided with tab and printed circuit terminals

V - Contact construction

Blank - Standard type

E - High capacity type

VI - Coil wattage

Blank - 200 mW (standard type) H - 150 mW

L - 360 mW

VII - Market Code

Blank - Standard HA - For home appliance using high grade plastic material

VIII - Optional Suffixes

May be followed by additional letter(s) and/or number(s) for sales purposes $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left($

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE USE):

Use - For use only in complete equipment or industrial control applications where the acceptability of the combination is determined by Underwriters' Laboratories, Inc.

These components have been judged on the basis of the required spacings in the Standard for Industrial Control Equipment, UL 508, Section 48, which would cover the component itself if submitted for unrestricted Listing.

Conditions of Acceptability -

- 1. These devices should be mounted within a suitable ultimate enclosure and with proper spacings being maintained.
- 2. These devices should be used within their marked electrical rating.
 - 3. These devices are intended for factory wiring only.
- 4. These devices were tested within an unventilated enclosure of $42 \, \mathrm{in^3}$. If mounted within a smaller enclosure, consideration should be given for the need of repeating temperature tests. Temperatures measured on the coil should not exceed $105\,^{\circ}\mathrm{C}$ when adjusted to a $40\,^{\circ}\mathrm{C}$ ambient.

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CONSTRUCTION DETAILS:

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