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Project 08CA49010

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REPORT

ON

COMPONENT - MAGNETIC MOTOR CONTROLLER

Dongguan Sanyou Electrical Appliances Co., Ltd.
Guangdong, China

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Across the line magnetic motor controllers, intended for use in industrial control applications, Type SRU, followed by "-S" or -SH, followed by -1, followed by 03 to 48, followed by the letters "D" or "L", followed by the letter "M", "B" or Blank, followed by Blank, followed by -B, -F or Blank, maybe followed by any special codes.

GENERAL:

These devices are open type, magnetically operated, single-pole, single-throw (SPST) for 1 Form A relays, with normally open contacts, single-pole, single-throw (SPST) for 1 Form B relays, with normally close contacts, and single-pole, double-throw relays, for 1 Form C relays, with normally open and normally closed contacts.

ELECTRICAL RATING:

Contact -

12 A, 240 V ac, Resistive, 100K cycles, N.O., 70°C.
10 A, 240 V ac, Resistive, 100K cycles, N.O., 70°C.
10 A, 240 V ac, Resistive, 6K cycles, N.C., 70°C.
5 A, 240 V ac, Resistive, 100K cycles, N.C., 70°C.
15 A, 120 V ac, Resistive, 6K cycles, N.O. & N.C., 70°C.
7 A, 250 V ac, Resistive, 6K cycles, N.O. & N.C., 70°C.
12 A, 120 V ac, Resistive, 6K cycles, N.O. & N.C., 70°C.
12 A, 240 V ac, General Use, 100K cycles, N.O., 70°C.
10 A, 240 V ac, General Use, 100K cycles, N.O., 70°C.
5 A, 240 V ac, General Use, 100K cycles, N.O., 70°C.
4 A, 120 V ac, General Use, 6K cycles, N.O. & N.C., 70°C.
4 A, 24 V dc, Resistive, 6K cycles, N.O. & N.C., 70°C.
10 A, 24 V dc, Resistive, 6K cycles, N.O. & N.C., 70°C.
1/3 Hp, 250 V ac, 6K cycles, N.O. & N.C., 70°C.
TV-5, 120 V ac, 25K cycles, N.O. & N.C., 40°C.
Pilot Duty: 240 VA, 240 V ac, 6K cycles, N.O. & N.C., 70°C.

Coil - 3 - 48 V dc

Ambient Temperature: +70C

NOMENCLATURE:

$\frac{SRU}{I}$ - $\frac{S}{II}$ - $\frac{1}{III}$ $\frac{12}{IV}$ $\frac{D}{V}$ $\frac{M}{VI}$ $\frac{Blank}{VII}$ - $\frac{F}{VIII}$ - $\frac{XX}{IX}$

- I. Series Designation
- II. Protective construction
- SH: Sealed type washable
S: Sealed type
- III. Number of poles
- 1: 1 pole
- IV. Coil Voltage
- Any voltage between 3 V dc and 48 V dc
- V. Coil sensitivity
- D: 450 mW
L: 360 mW
- VI. Contact Form
- Blank: 1 form C
M: 1 form A
B: 1 form B
- VII. Contact Material
- Blank: Silver-tin oxide (AgSnO₂)
- VIII. Insulation System
- B: Class 130 (B)
F: Class 155 (F)
Blank: Standard Type (Class 105)
- VIII. Special Code
- Additional numbers or letters, which don't effect construction or ratings.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in (or with) complete equipment where the acceptability of the combination has been determined by Underwriters Laboratories Inc.

USR indicates investigation to the Standard for Industrial Control Equipment, UL 508, 17th Edition.

CNR indicates investigation to the Standard for Industrial Control Equipment, CAN/CSA C22.2 No. 14-05, 10th Edition.

This device has been judged on the basis of the required spacings in the Standard for Industrial Control Equipment, UL 508, Seventeenth Edition, revision dated July 11, 2005, which would cover the component itself if submitted for unrestricted Listing.

CONDITIONS OF ACCEPTABILITY -

1. A suitable enclosure should be provided for these devices in the end-product.
2. The relay terminals are not suitable for field wiring. The relay terminals are to be factory wired only, and the suitability of the connection (including spacings between factory connectors) shall be determined.
3. These devices are suitable to be used in an ambient temperature of maximum 70°C.