

File E190598
Project 08CA49010

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REPORT

ON

COMPONENT - MAGNETIC MOTOR CONTROLLERS

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 SZ, followed by -S or -SH, followed by -1, followed by 03 through 48, followed by D or L, followed by M 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 and single-pole, double-throw (SPDT), for 1 Form C relays, with normally-open and normally-closed contacts.

ELECTRICAL RATINGS:

Contacts -

20 A, 120 V ac, Resistive, 6K cycles, N.O. & N.C., 70°C.
16 A, 240 V ac, Resistive, 100K cycles, N.O., 70°C.
16 A, 240 V ac, Resistive, 6K cycles, N.C., 70°C.
16 A, 240 V ac, General Use, 100K cycles, N.O., 70°C.
5 A, 120 V ac, General Use, 6K cycles, N.O. & N.C., 70°C.
5 A, 24 V dc, Resistive, 6K cycles, N.O. & N.C., 70°C.
1 Hp, 240 V ac, 6K cycles, N.O. & N.C., 70°C.
1/2 Hp, 120 V ac, 6K cycles, N.C., 70°C.
TV-8, 240 V ac, 25K cycles, N.O., 40°C.
TV-3, 240 V ac, 25K cycles, N.C., 40°C.
Pilot Duty: 3 A, 720VA, 240 V ac, N.O., 70°C.
1 A, 240VA, 240 V ac, N.C., 70°C.

Coil - 3-48 V dc

Ambient Temperature: 70°C.

NOMENCLATURE:

| | | | | | | | | | |
|-----------|-----------|-----------|-----------|----------|----------|--------------|---|----------|-----------|
| <u>SZ</u> | <u>-S</u> | <u>-1</u> | <u>12</u> | <u>D</u> | <u>M</u> | <u>Blank</u> | - | <u>F</u> | <u>XX</u> |
| I | II | III | IV | V | VI | VII | | VIII | 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 to 48 V dc

V. Coil Sensitivity

D: 720 mW
L: 540 mW

VI. Contact Form

M: 1 Form A
Blank: 1 Form C

VII. Contact material

Blank: Silver-tin oxide (AgSnO₂)

VIII. Insulation System

B: Class 130(B)
F: Class 155(F)
Blank: Standard Type (Class 105)

IX. Special Code

Additional numbers or letters, which don't affect construction or ratings.

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.