

File E190598
Project 08CA40639

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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, Cat. No. SRD followed by -S or -SH, followed by -1, followed by 03 to 48, followed by D, followed by M or 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 closed contacts, or single pole, double-throw (SPDT) for 1 Form C relays with normally open and normally closed contacts. These devices are for use in industrial control applications.

Ratings

12 A, 125 V ac, resistive, 50,000 cycles, Normally Open & Normally Close, 105°C.

15 A, 125 V ac, resistive, Normally Open, 30,000 cycles, 105°C.

10 A, 250 V ac, resistive, Normally Open, 100,000 cycles, 105°C.

1/3 hp, 250 V ac, 6,000 cycles, Normally Open & Normally Close.

7 A, 250 V ac, general use, 6,000 cycles, Normally Open & Normally Close.

3 A, 125 V ac, general use, 6,000 cycles, Normally Open & Normally Close.

10 A, 28 V dc, general use, 30,000 cycles, 105°C, Normally Open.

6 A, 28 V dc, general use, 100,000 cycles, 105°C, Normally Close.

10 A Normally Open/6 A Normally Close, 250 V ac, general use, 100,000 cycles, 105°C.

10 A Normally Open/ 6 A Normally Close, 125 V ac, general use, 100,000 cycles, 105°C.

Pilot Duty: 240 VA, 240 V ac, 100,000 cycles, 70°C.

TV: TV-3, 120 V ac, Normally Open, 25,000 cycles, 70°C.

TV-5, 120 V ac, Normally Open, 25,000 cycles, 40°C.

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Coil:

3-48 V inclusive

Ambient Temperature:

Maximum 105°C for relays with Class B and F insulation system.

Maximum 70°C for relays with a Class A, B and F insulation system.

NOMENCLATURE

<u>SRD</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>
<u>I</u>	<u>II</u>	<u>III</u>	<u>IV</u>	<u>V</u>	<u>VI</u>	<u>VII</u>		<u>VIII</u>		<u>IX</u>

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 Vdc and 48 Vdc.

V. Coil Sensitivity

D: Standard coil sensitivity

VI. Contact form

Nil: 1 form C
M: 1 form A
B: 1 form B

VII. Contact Material

Blank: AgSnO2

VIII. Insulation System

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

IX. Special Code

Additional numbers or letters, which don't effect construction.

*TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE USE):

USR indicates United States Recognized component evaluated to UL 508, Standard for Industrial Control Equipment, seventeenth edition.

CNR indicates Canadian National Recognized component evaluated to CAN/CSA C22.2 No. 14, Standard for Industrial Control Equipment, tenth edition.

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

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Spacings - The spacings have been evaluated in accordance with UL 508, the Standard for Industrial Control Equipment, Seventeenth Edition, Table 36.1, Column B. A minimum spacing of 1.6 mm through air and 3.2 mm over surface shall be maintained between any uninsulated live part and uninsulated live part opposite polarity, uninsulated grounded part, or exposed metal part.

Conditions of Acceptability -

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1. The terminals of these relays are not suitable for field wiring.

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2. The Dust Cover has not been evaluated as insulating barrier and should be considered in the end-use application with regards to spacing requirements to uninsulated live parts.

3. The devices rated at an ambient above 90°C, shall be used with a PCB Board rated at minimum 130°C.

4. These devices with pin-type terminal rated TV rating shall be only used with a PCB rated at minimum 105°C. Other type of terminals are not suitable for these devices.