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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, intended for use in Industrial Control Equipment, Model SJ Series, followed by -S or -SH, followed by -1, followed by 03 to 48, followed by D or L, followed by M, followed by Blank or H, followed by Blank, followed by -B, -F or blank, maybe followed by any special codes.

GENERAL:

The devices are open type magnetically operated, single-pole, single-throw relays, with normally open contacts with single stable, single coil latching.

RATINGS:

Contact - Series SJ-D (with contact diameter 3.0 mm & 2.6 mm)

10 A, 125 V ac/250 V ac, Resistive, 100,000 cycles, 85°C.
5 A, 277 V ac, Resistive, 100,000 cycles, 105°C.
10 A, 120 V ac, Resistive, 6000 cycles.
5 A, 250 V ac, Resistive, 100,000 cycles, 105°C.
5 A, 28 V dc, Resistive, 100,000 cycles, 105°C.
5 A, 250 V ac General Use, 100,000 cycles, 105°C.
1.5 A, 250 V ac, General Use, 6,000 cycles.
1/3 Hp, 240 V ac, 30,000 cycles.
TV-5, 120 V ac, 25,000 cycles, 40°C.
Pilot Duty: 240 VA, 240 V ac, 70°C.

Series SJ-L (with contact diameter 2.6 mm)

3 A, 277 V ac, Resistive, 100,000 cycles, 85°C.
5 A, 120 V ac, Resistive, 30,000 cycles, 105°C.
3 A, 250 V ac, Resistive, 100,000 cycles, 85°C.
3 A, 250 V ac, General Use, 100,000 cycles, 85°C.
3 A, 28 V dc, Resistive, 100,000 cycles, 85°C.
1 A, 250 V ac, General Use, 6,000 cycles.
TV-3, 120 V ac, 25,000 cycles, 70°C.
1/4 Hp, 240 V ac, 30,000 cycles.
Pilot Duty: 120 VA, 240 V ac, at 70°C.

Coils -

3-48 V dc, 450 mW, Model SJ-D
3-48 V dc, 200 mW, Model SJ-L

Ambient Temperature:

Maximum 85°C, for Models with L type coils

Maximum 105°C, for Models with D type coils

NOMENCLATURE:

<u>SJ</u>	<u>-S</u>	<u>-1</u>	<u>12</u>	<u>D</u>	<u>M</u>	<u>H</u>	<u>Blank</u>	<u>-F</u>	<u>-XX</u>
I	II	III	IV	V	VI	VII	VIII	IX	X

- I. Basic Designation: SJ
- II. Protective Construction:
S - Sealed
SH - Sealed washable
- III. Number of Poles:
1 - 1 pole
- IV. Coil Voltage:
3 Vdc to 48 Vdc
- V. Coil Sensitivity:
D - 0.45 W
L - 0.20 W
- VI. Contact Form:
M - 1 Form A
- VII. Contact Load
Blank - Standard type (3A/5A: 2.6 mm contact diameter)
H - 10 A (3.0 mm contact diameter)
- VIII. Contact Material:
Blank - Silver Alloy (AgSnO₂)
- IX. Insulation System:
Blank - Standard Type
B - Class 130(B)
F - Class 155(F)
- X. Special Code
Additional numbers or letters, which don't affect 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 is determined by Underwriters Laboratories, Inc.

USR indicates these products were investigated under the Standard for Industrial Control Equipment, UL 508, 17th Edition,
CNR indicates these products were investigated under the Standard for Industrial Control Equipment, CSA C22.2 No. 14-05, 10th Edition.

Conditions of Acceptability -

1. The pin terminals are not suitable for field wiring.
2. These devices are for use in same polarity applications only (due to electrical spacings between adjacent poles.)
3. Open type devices should be mounted in an appropriate enclosure.
4. 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.
5. The devices rated at an ambient above 90°C, shall be used with a PCB Board rated at minimum 130°C.