

File E58304
Project 08CA45508

October 24, 2007

REPORT

on

COMPONENT - Motor Controllers, Magnetic

Tyco Electronics (Shenzhen) CO. Ltd
Shenzhen, Guangdong 518108 China

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Magnetic Relay, Type EF, followed by numbers or letters, followed by -1, followed by A, followed by 2, followed by -D, followed by 005 through 048, followed by -F, and may be followed by additional numbers and/or letters.

GENERAL:

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

RATINGS:

*Contact: 20 A, 250 V ac, Resistive, **80,000** cycles, 85°C.
20A, 250Vac, Resistive, 100,000 cycles room ambient.
1 Hp, 277 V ac, 30,000 cycles, 85°C.

Coil: 5 to 48 V dc

NOMENCLATURE:

<u>EF</u>	<u>00</u>	-	<u>1</u>	<u>A</u>	<u>2</u>	-	<u>D</u>	<u>012</u>	-	<u>F</u>	<u>xxxxx</u>
I	II		III	IV	V		VI	VII		VIII	IX

- I. Basic Series EF Series
- II. 2 Numbers or Letters: for Manufacture Internal control use only.
May be followed by up to 2 numbers or letters which do not represent
electrical change
- III. Termination: 1 - 1 Pole
- IV. Contact arrangement: A - 1 Make (SPST-NO)
- V. Contact Material: 2 - AgSnO
- VI. Coil power: D - Standard Sensitivity
- VII. Coil voltage: 005 to 048 V dc
- VIII. Sealant: F - Flux proof
- IX. Additional Numbers and /or Letters:
May be followed by up to five numbers and/or letters which do not
represent electrical change

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.

This Component has been judged on the basis of the required spacing in The Standard of Industrial Control Equipment, UL 508, Seventeenth Edition, and Canadian National Standard, CSA C22.2 No.14-95 which would cover the component itself for unrestricted Listing.

Condition of Acceptability -

1. A suitable enclosure should be provided for these devices in the end-product.
2. The controller 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 in the end product evaluation.
3. The coil of these relays have been evaluated for the following circuits suitability for use circuits other than listed below shall be determined in the end product evaluation.
 - a) Class 2 circuit;
 - b) Isolated secondary circuits as defined by UL 508.
 - c) Limited Power Circuit as defined by UL 60950.

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