

File E341498  
Project 10CA52230

December 21, 2010

REPORT

On

COMPONENT - SWITCHES, INDUSTRIAL CONTROL

Shenzhen Yuanze Electric Co Ltd

Shenzhen, Guangdong China

Copyright Ó 2010 Underwriters Laboratories Inc. Ó

Underwriters Laboratories Inc. authorizes the above-named company to reproduce this Report provided it is reproduced in its entirety.

Underwriters Laboratories Inc. authorizes the above named company to reproduce the latest pages of that portion of this Report consisting of this Cover Page through Page 3.

## DESCRIPTION

## PRODUCT COVERED:

\*USR, CNR - Magnetic, Switches, Industrial Control, Cat. No. Y3F, followed by -SS or -SH, followed by -1, followed by 05 **thru 48**, followed by D or H, followed by M or blank, **followed by blank or F**, maybe followed by special code (not necessary to be shown on product).

## GENERAL:

The devices are open type magnetically operated, single pole, single throw or double throw relays for use in industrial control applications.

## ELECTRICAL RATINGS:

Catalog No.	Coil Voltage Vdc	Contact Arrangement	Contact Ratings (50/60 Hz)		Electrical Operating cycles	Load Type	Surrounding Air Temperature (SAT) (°C)
			Rated Voltage	Rated Current A			
*Y3F	5 <b>thru 48</b>	1 Form A	125 Vac	15	100,000	Resistive	85
			125 Vac	15*	100,000	Resistive	105
			120 Vac	TV-5	25,000	Tungsten Lamp	
			277 Vac	6	6,000	Standard Ballast	
		1 Form A	125/250 Vac	10	100,000	Resistive	
		1 Form C	250 Vac	10	100,000	Resistive	

Note: Contact Configuration Breakup

Form A: where A - Normally Open

Form C: where C - Normally Open and Normally Closed

**\*Note: Rating 125 Vac, 15A, SAT 105°C is for Y3F Series with code VII is "F" only.**

## NOMENCLATURE:

Y3F	-	SS	-	1	05	D	M	F	xxx
I		II		III	IV	V	VI	VII	VIII

## I. Product Type

Y3F

## II. Enclosure

SS: Flux-tight  
SH: Sealed Case

## III. Number of Pole

1: Single Pole

## IV. Coil Voltage

\* **05-48VDC**

## V. Coil Power

D: Standard (0.36 W)  
\*H: High (0.45 W)

## VI. Contact Arrangement

M: Form A  
Blank: Form C**VII. Insulation System****Blank: Class A**  
**F: Class F****VIII.** Special Code (Not necessary to be shown on product)

Numbers or letters, do not represent electrical changes, these codes denote customer's requirements.

Insulation System: for Class F only.

Class 155(F) - Unlisted Component (OBJY3/9), Shenzhen Yuanze Electric Co Ltd (E341498), type YZ-155.

Part	Manufacture	Model	Requirement
Coil	Various	Various	Magnet Wire - R/C (OBMW2) Type: MW 79 or 155°C Polyurethane MW 80 or 155°C Polyurethane (Polyamide) The above wire types may be used in combination within a single product.
Bobbin	Mitsubishi Engineering-Plastics Corp, (E53664)	5010GN6-30 M8	R/C (QMFZ2), Molded polybutylene terephthalate (PBT), approx 0.38 mm minimum, suitable for Direct Support Requirements.