

# AZSR216/316

**Discontinuation Notice**

Discontinuation date:

31.12.2014

Date of last order:

31.03.2015

Recommended replacement:

RUC

## 16 AMP 3-POLE SOLAR POWER RELAY

### FEATURES

- 3 mm contact gap
- PCB version
- 2-pole or 3-pole versions available
- AZSR216: Clearance / creepage distance > 5 / 8 mm
- AZSR316: Clearance / creepage distance > 5 / 5.5 mm
- Holding Power < 100 mW
- UL, CUR file E43203



### CONTACTS

<b>Arrangement</b>	DPST (2 Form A) 3PST (3 Form A)
<b>Ratings</b>	Resistive load:  Max. switched power: 280 W or 4000 VA Max. switched current: 16 A Max. switched voltage: 28 VDC* or 400 VAC  * Note: If switching voltage is greater than 28 VDC, special precautions must be taken. Please contact the factory.
<b>Rated Load UL, CUR</b>	15 A at 250 VAC, resistive
<b>Material</b>	Silver cadmium oxide, silver nickel
<b>Resistance</b>	< 100 milliohms initially (at 6 V, 1 A, voltage drop method)

### GENERAL DATA

<b>Life Expectancy Mechanical</b>	Minimum operations 2 x 10 <sup>5</sup>
<b>Electrical</b>	1 x 10 <sup>5</sup> at 16 A, 250 VAC, res.
<b>Operate Time (typical)</b>	12 ms at nominal coil voltage
<b>Release Time (typical)</b>	7 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	2500 Vrms coil to contact 2500 Vrms between open contacts 2500 Vrms between contact sets
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC, 50% RH
<b>Category of Protection</b>	RT II
<b>Holding Voltage</b>	Greater than 20% of nominal coil voltage
<b>Dropout</b>	Greater than 5% of nominal coil voltage
<b>Ambient Temperature Operating</b>	at nominal coil voltage -40°C (-40°F) to 55°C (131°F) at max. 50% of nominal coil voltage -40°C (-40°F) to 85°C (185°F)
<b>Vibration</b>	5 g at 10–150 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.C.
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Weight</b>	85 grams

### COIL

<b>Power</b>	
<b>At Pickup Voltage (typical)</b>	1.1 W
<b>At Holding Voltage (typical)</b>	70 mW
<b>Max. Continuous Dissipation</b>	2.05 W at 20°C (68°F) ambient
<b>Temperature Rise</b>	50 °C (90°F) at nominal coil voltage
<b>Temperature</b>	Max. 130°C (266°F)

### NOTES

1. All values at 20°C (68°F)
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.

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This product specification to be used only together with the application notes which can be downloaded from <http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf>

2014-09-08

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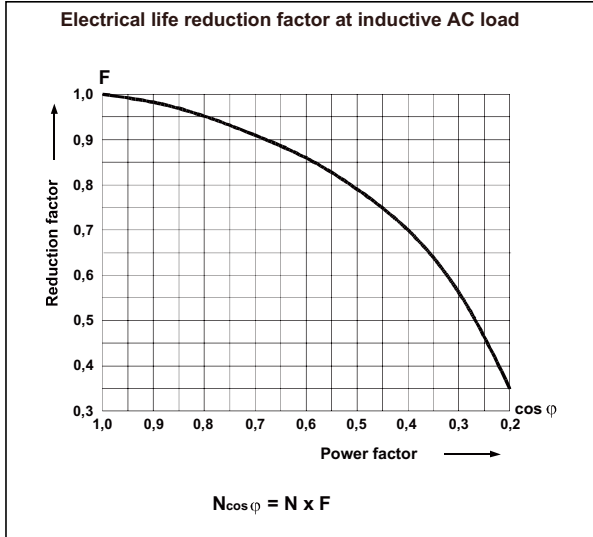
Recommended replacement:

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## RELAY ORDERING DATA

COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	ORDER NUMBER*	
				2 Form A	3 Form A
12	9.6	13.2	85	AZSR216-2A-12D	AZSR316-3A-12D
24	19.2	26.4	345	AZSR216-2A-24D	AZSR316-3A-24D

\* "2A" or "3A" denote silver cadmium oxide contacts.  
Add suffix "B" at "2A" or "3A" for silver nickel contacts.



## MECHANICAL DATA

Dimensions in mm.  
Tolerance:  $\pm 0.25$  mm

\*not used on AZSR216

### PC BOARD LAYOUT

2 NO

6 x  $\varnothing 1,5$

Viewed toward terminals

3 NO

8 x  $\varnothing 1,5$

Viewed toward terminals

### WIRING DIAGRAMS

2 NO

Viewed toward terminals

3 NO

Viewed toward terminals

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