Discontinuation Notice

Discontinuation date:	**31.12.2014**
Date of last order:	**31.03.2015**
Recommended replacement:	**RUC**

AZSR216/316

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

Arrangement	DPST (2 Form A) 3PST (3 Form A)
Ratings	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.
Rated Load UL, CUR	15 A at 250 VAC, resistive
Material	Silver cadmium oxide, silver nickel
Resistance	< 100 milliohms initially (at 6 V, 1 A, voltage drop method)

COIL

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

GENERAL DATA

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

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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

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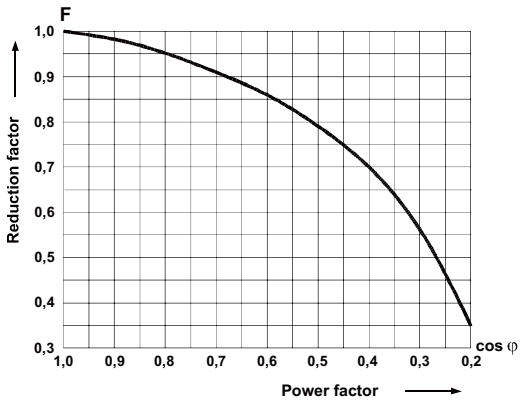
AZSR216/316

RELAY ORDERING DATA

COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 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

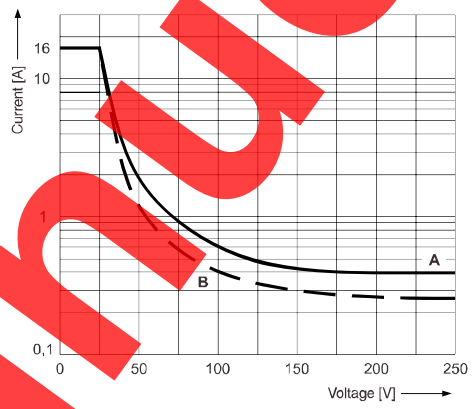
* "2A" or "3A" denote silver cadmium oxide contacts.
Add suffix "B" at "2A" or "3A" for silver nickel contacts.

Electrical life reduction factor at inductive AC load



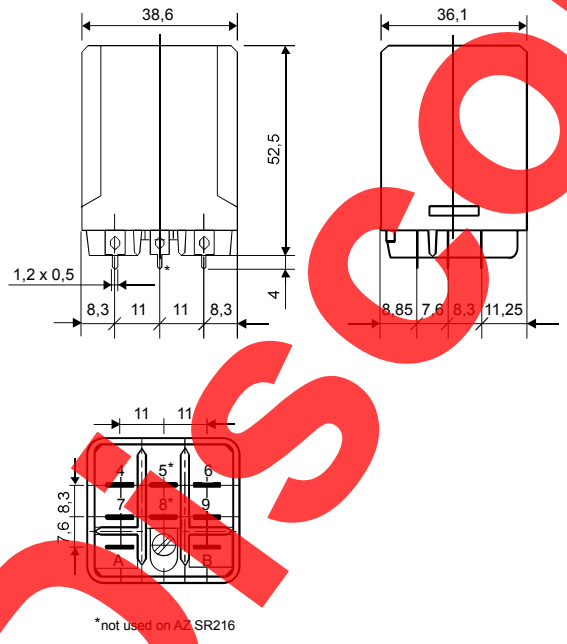
$N_{\cos\varphi} = N \times F$

Max. DC breaking Capacity



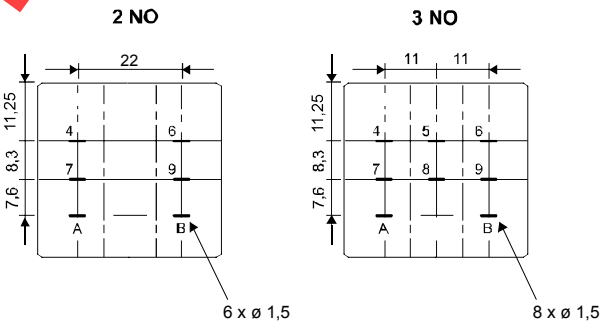
A: resistive load DC1
B: inductive load L/R = 40 ms

MECHANICAL DATA



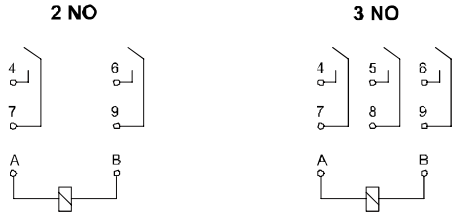
Dimensions in mm.
Tolerance: ± 0.25 mm

PC BOARD LAYOUT



Viewed toward terminals

WIRING DIAGRAMS



Viewed toward terminals

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