

Certificate of Compliance

Certificate: 1812259

Master Contract: 234503

Project: 1812259

Date Issued: June 30, 2006

Issued to: Sirai Elettromeccania S.r.l.
19 Strada per Cernusco
20060 Bussero (MI) Milan
ITALY

The products listed below are eligible to bear the CSA Mark shown



Issued by: G. Foulem

Authorized by: M.H.J. Hoendervangers

PRODUCTS

CLASS No: 3221-02 – ELECTRICALLY OPERATED VALVES - Miscellaneous

Electrical solenoid valves actuators, Series ZB14A and ZB14C, for the control of pneumatic circuit, at ambient temperature from -10°C to 75°C and fluid temperature equal to -10°C to 130°C.

Electrical solenoid valves actuators, Series ZB12A and ZB12C, for the control of pneumatic circuit, at ambient temperature from -10°C to 75°C and fluid temperature equal to -10°C to 130°C.

ZB14A

- rated input 12Vc.c., 5.5W, 100%
- rated input 12V 50-60Hz, 4W, 100%
- rated input 24Vc.c., 5.5W, 100%
- rated input 24V 50-60Hz, 4W, 100%
- rated input 48Vc.c., 5.5W, 100%
- rated input 48V 50-60Hz, 4W, 100%
- rated input 110Vc.c., 5.5W, 100%
- rated input 120V 60Hz, 4W, 100%,
- rated input 115V 50Hz, 4W 100%,
- rated input 200V 50-60Hz, 4W, 100%
- rated input 230V 50-60Hz, 4W, 100%
- rated input 240V 50-60Hz, 4W, 100%

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Serie ZB14C - rated input 12Vc.c., 3W, 100%
- rated input 12V 50-60Hz, 2.5W, 100%
- rated input 24Vc.c., 3W, 100%
- rated input 24V 50-60Hz, 2.5W, 100%
- rated input 48Vc.c., 3W, 100%
- rated input 48V 50-60Hz, 2.5W, 100%
- rated input 110Vc.c., 3W, 100%
- rated input 120V 60Hz, 2.5W, 100%
- rated input 115-120V 50-60Hz, 2.5W, 100%
- rated input 200V 50-60Hz, 2.5W, 100%
- rated input 230V 50-60Hz, 2.5W, 100%
- rated input 240V 50-60Hz, 2.5W, 100%

Serie ZB12A - rated input 12Vc.c., 5.5W, 100%
- rated input 12V 50-60Hz, 4W, 100%
- rated input 24Vc.c., 5.5W, 100%
- rated input 24V 50-60Hz, 4W, 100%
- rated input 48Vc.c., 5.5W, 100%
- rated input 48V 50-60Hz, 4W, 100%
- rated input 110Vc.c., 5.5W, 100%
- rated input 120V 60Hz, 4W, 100%,
- rated input 115V 50Hz, 4W 100%,
- rated input 200V 50-60Hz, 4W, 100%
- rated input 230V 50-60Hz, 4W, 100%
- rated input 240V 50-60Hz, 4W, 100%

Serie ZB12C - rated input 12Vc.c., 3W, 100%
- rated input 12V 50-60Hz, 2.5W, 100%
- rated input 24Vc.c., 3W, 100%
- rated input 24V 50-60Hz, 2.5W, 100%
- rated input 48Vc.c., 3W, 100%
- rated input 48V 50-60Hz, 2.5W, 100%
- rated input 110Vc.c., 3W, 100%
- rated input 120V 60Hz, 2.5W, 100%
- rated input 115V 50Hz, 2.5W, 100%
- rated input 200V 50-60Hz, 2.5W, 100%
- rated input 230V 50-60Hz, 2.5W, 100%
- rated input 240V 50-60Hz, 2.5W, 100%

Notes: Certified only for use in equipment where the acceptability of the combination will be determined by the CSA INTERNATIONAL in the end use.

APPLICABLE REQUIREMENTS

CAN/CSA Standard C22.2 No 139 "Electrically operated valves"



Supplement to Certificate of Compliance

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Product Certification History

Project	Date	Description
1812259	June 30, 2006	CSA Original Certification of Electrical solenoid valves actuators, Series ZB14A, ZB14C, ZB 12A and ZB12C

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PRODUCTS

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Electrical solenoid valves actuators, Series ZB12A and ZB12C, for the control of pneumatic circuit, at ambient temperature from -10°C to 75°C and fluid temperature equal to -10°C to 130°C.

ZB14A

- rated input 12Vc.c., 5.5W, 100%
- rated input 12V 50-60Hz, 4W, 100%
- rated input 24Vc.c., 5.5W, 100%
- rated input 24V 50-60Hz, 4W, 100%
- rated input 48Vc.c., 5.5W, 100%
- rated input 48V 50-60Hz, 4W, 100%
- rated input 110Vc.c., 5.5W, 100%
- rated input 120V 60Hz, 4W, 100%,
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- rated input 230V 50-60Hz, 4W, 100%
- rated input 240V 50-60Hz, 4W, 100%

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Serie ZB14C - rated input 12Vc.c., 3W, 100%
- rated input 12V 50-60Hz, 2.5W, 100%
- rated input 24Vc.c., 3W, 100%
- rated input 24V 50-60Hz, 2.5W, 100%
- rated input 48Vc.c., 3W, 100%
- rated input 48V 50-60Hz, 2.5W, 100%
- rated input 110Vc.c., 3W, 100%
- rated input 120V 60Hz, 2.5W, 100%
- rated input 115-120V 50-60Hz, 2.5W, 100%
- rated input 200V 50-60Hz, 2.5W, 100%
- rated input 230V 50-60Hz, 2.5W, 100%
- rated input 240V 50-60Hz, 2.5W, 100%

Serie ZB12A - rated input 12Vc.c., 5.5W, 100%
- rated input 12V 50-60Hz, 4W, 100%
- rated input 24Vc.c., 5.5W, 100%
- rated input 24V 50-60Hz, 4W, 100%
- rated input 48Vc.c., 5.5W, 100%
- rated input 48V 50-60Hz, 4W, 100%
- rated input 110Vc.c., 5.5W, 100%
- rated input 120V 60Hz, 4W, 100%,
- rated input 115V 50Hz, 4W 100%,
- rated input 200V 50-60Hz, 4W, 100%
- rated input 230V 50-60Hz, 4W, 100%
- rated input 240V 50-60Hz, 4W, 100%

Serie ZB12C - rated input 12Vc.c., 3W, 100%
- rated input 12V 50-60Hz, 2.5W, 100%
- rated input 24Vc.c., 3W, 100%
- rated input 24V 50-60Hz, 2.5W, 100%
- rated input 48Vc.c., 3W, 100%
- rated input 48V 50-60Hz, 2.5W, 100%
- rated input 110Vc.c., 3W, 100%
- rated input 120V 60Hz, 2.5W, 100%
- rated input 115V 50Hz, 2.5W, 100%
- rated input 200V 50-60Hz, 2.5W, 100%
- rated input 230V 50-60Hz, 2.5W, 100%
- rated input 240V 50-60Hz, 2.5W, 100%

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APPLICABLE REQUIREMENTS

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ZB14A

- rated input 12Vc.c., 5.5W, 100%
- rated input 12V 50-60Hz, 4W, 100%
- rated input 24Vc.c., 5.5W, 100%
- rated input 24V 50-60Hz, 4W, 100%
- rated input 48Vc.c., 5.5W, 100%
- rated input 48V 50-60Hz, 4W, 100%
- rated input 110Vc.c., 5.5W, 100%
- rated input 120V 60Hz, 4W, 100%,
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- rated input 240V 50-60Hz, 4W, 100%

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Serie ZB14C - rated input 12Vc.c., 3W, 100%
- rated input 12V 50-60Hz, 2.5W, 100%
- rated input 24Vc.c., 3W, 100%
- rated input 24V 50-60Hz, 2.5W, 100%
- rated input 48Vc.c., 3W, 100%
- rated input 48V 50-60Hz, 2.5W, 100%
- rated input 110Vc.c., 3W, 100%
- rated input 120V 60Hz, 2.5W, 100%
- rated input 115-120V 50-60Hz, 2.5W, 100%
- rated input 200V 50-60Hz, 2.5W, 100%
- rated input 230V 50-60Hz, 2.5W, 100%
- rated input 240V 50-60Hz, 2.5W, 100%

Serie ZB12A - rated input 12Vc.c., 5.5W, 100%
- rated input 12V 50-60Hz, 4W, 100%
- rated input 24Vc.c., 5.5W, 100%
- rated input 24V 50-60Hz, 4W, 100%
- rated input 48Vc.c., 5.5W, 100%
- rated input 48V 50-60Hz, 4W, 100%
- rated input 110Vc.c., 5.5W, 100%
- rated input 120V 60Hz, 4W, 100%,
- rated input 115V 50Hz, 4W 100%,
- rated input 200V 50-60Hz, 4W, 100%
- rated input 230V 50-60Hz, 4W, 100%
- rated input 240V 50-60Hz, 4W, 100%

Serie ZB12C - rated input 12Vc.c., 3W, 100%
- rated input 12V 50-60Hz, 2.5W, 100%
- rated input 24Vc.c., 3W, 100%
- rated input 24V 50-60Hz, 2.5W, 100%
- rated input 48Vc.c., 3W, 100%
- rated input 48V 50-60Hz, 2.5W, 100%
- rated input 110Vc.c., 3W, 100%
- rated input 120V 60Hz, 2.5W, 100%
- rated input 115V 50Hz, 2.5W, 100%
- rated input 200V 50-60Hz, 2.5W, 100%
- rated input 230V 50-60Hz, 2.5W, 100%
- rated input 240V 50-60Hz, 2.5W, 100%

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ZB14A

- rated input 12Vc.c., 5.5W, 100%
- rated input 12V 50-60Hz, 4W, 100%
- rated input 24Vc.c., 5.5W, 100%
- rated input 24V 50-60Hz, 4W, 100%
- rated input 48Vc.c., 5.5W, 100%
- rated input 48V 50-60Hz, 4W, 100%
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Serie ZB14C - rated input 12Vc.c., 3W, 100%
- rated input 12V 50-60Hz, 2.5W, 100%
- rated input 24Vc.c., 3W, 100%
- rated input 24V 50-60Hz, 2.5W, 100%
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- rated input 48V 50-60Hz, 2.5W, 100%
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- rated input 120V 60Hz, 2.5W, 100%
- rated input 115-120V 50-60Hz, 2.5W, 100%
- rated input 200V 50-60Hz, 2.5W, 100%
- rated input 230V 50-60Hz, 2.5W, 100%
- rated input 240V 50-60Hz, 2.5W, 100%

Serie ZB12A - rated input 12Vc.c., 5.5W, 100%
- rated input 12V 50-60Hz, 4W, 100%
- rated input 24Vc.c., 5.5W, 100%
- rated input 24V 50-60Hz, 4W, 100%
- rated input 48Vc.c., 5.5W, 100%
- rated input 48V 50-60Hz, 4W, 100%
- rated input 110Vc.c., 5.5W, 100%
- rated input 120V 60Hz, 4W, 100%,
- rated input 115V 50Hz, 4W 100%,
- rated input 200V 50-60Hz, 4W, 100%
- rated input 230V 50-60Hz, 4W, 100%
- rated input 240V 50-60Hz, 4W, 100%

Serie ZB12C - rated input 12Vc.c., 3W, 100%
- rated input 12V 50-60Hz, 2.5W, 100%
- rated input 24Vc.c., 3W, 100%
- rated input 24V 50-60Hz, 2.5W, 100%
- rated input 48Vc.c., 3W, 100%
- rated input 48V 50-60Hz, 2.5W, 100%
- rated input 110Vc.c., 3W, 100%
- rated input 120V 60Hz, 2.5W, 100%
- rated input 115V 50Hz, 2.5W, 100%
- rated input 200V 50-60Hz, 2.5W, 100%
- rated input 230V 50-60Hz, 2.5W, 100%
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