



Certificate of Compliance

Certificate: 70179750

Master Contract: 272417

Project: 80013570

Date Issued: August 28, 2019

Issued to: Lovato Electric S.p.A.
Componenti Elettrici per
Automazioni Industriali
Via Don E Mazza 12
Gorle Bergamo 24020
ITALY

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



Issued by: *Diane Sullivan*
Diane Sullivan

PRODUCTS

CLASS - C321107 - INDUSTRIAL CONTROL EQUIPMENT-Miscellaneous Apparatus

- Relay Sockets, detailed models and electrical ratings as follow table:

Relay Socket Model Designation	Ratings (per pole)	Number of Poles	Max Surrounding Air Temperature
HR7XS series	250 V, 10 A ac	2-3	70°C
HR5XS series	250 V, 10 A ac	1-2	70°C
HR6XS series	250 V, 7 A ac	2-4	70°C
HR1XS series	250 V, 6 A ac	1	85°C

Notes:

1. Certified only as a component of other certified equipment, where the acceptability of the combination is determined by CSA.
2. These devices are relay sockets intended for use with this manufacturer's relays, within the ratings specified above. These devices are suitable for use in limited ratings applications, if used with other relays or above the ratings indicated, consideration should be given to a repeat of Temperature testing. May be provided with slots and metal spring clip for rail-mounting.



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3. These devices should be mounted within a suitable ultimate enclosure and with proper spacing being maintained.
4. These devices are intended for factory wiring only.
5. These devices have not been evaluated for making and breaking a load. Relays shall therefore not be installed or removed under load.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 14-13 - Industrial control equipment

- Relay, open type, Model HR60

Notes:

1. These devices should be used within their Recognized ratings as specified above.
 2. Open type devices should be mounted in enclosures having adequate strength and thickness and in the intended manner with acceptable spacing provided.
 3. The terminals are to be factory wired only and the suitability of the connection (including spacing between factory connectors) shall be determined.
 4. The spacing from the exposed live metal parts to the enclosure walls shall be in accordance with the requirements of the overall equipment.
- Relay, open type, Model HR30

Ratings:

HR30 AC coil, 1 changeover contact

277 V AC / 250 V ac, 16 A, Resistive, 75k cycles, NO only
277 V AC / 250 V ac, 16 A, Resistive, 75k cycles, NC only
B300, NO only, 6k cycles
R300, NO only, 6k cycles
120 V AC, 9.2 A, General Use, 100k cycles
120 V AC, 8.2 A, Resistive, 100k cycles
250 V AC, 1/2 HP, NO only, 6k cycles
125 V AC, 1/3 HP, NO only, 6k cycles
250 V AC, 5 FLA/30 LRA, 30k cycles

HR30 AC coil, 2 changeover contacts

277 V AC / 250 V AC, 8 A, Resistive, 50k cycles

HR30 DC coil, 1 changeover contact

NO: 250V AC 16A Resistive 50,000 cycles
NC: 250V AC 16A Resistive 10,000 cycles



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NO: 250V AC 10A FLA, 60A LRA, 30,000 cycles
NO: B300 100,000 cycles Pilot Duty
NO: R300, 125V, 100,000 cycles, Pilot Duty
NO: R300, 250V, 60,000 cycles, Pilot Duty
NO: 1/2 HP 250V AC 30,000 cycles, Horse Power
NO: 120V AC 10A 6,000 cycles, Tungsten
NO: 120V AC 5A 6,000 cycles, Electronic Ballast
NO: 120V AC 10A 6,000 cycles, Stand Ballast

HR30 DC coil, 2 changeover contacts

NO: 250V AC 8A Resistive 50,000 cycles
NC: 250V AC 8A Resistive 10,000 cycles
NO: B300, 100,000 cycles, Pilot Duty
NO: R300, 100,000 cycles, Pilot Duty

- Relay, open type, Model HR50

Ratings:

HR50, 1 changeover contact

250V 16A General use 30,000 cycles

HR50, 2 changeover contacts

250V 8A General use 50,000 cycles

Notes:

1. The relay 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 for end use application.
2. Spacing from the exposed live metal parts to the enclosure walls shall be in accordance with the requirements of the overall equipment.
3. The Relay Cover has not been evaluated as an insulating barrier and should be considered in the end-use application with regards to spacing requirements to uninsulated live parts.

- Relays, component, open type, magnetically operated, single-pole, Model HR10

Note:

These units are open-type devices and certified only for use in complete assemblies where the suitability of the combination is to be determined.

- Plug-in module HR6X77 and HR6X78.



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Notes:

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2. These devices are relay sockets intended for use with this manufacturer's relays, within the ratings specified above. These devices are suitable for use in limited ratings applications, if used with other relays or above the ratings indicated, consideration should be given to a repeat of Temperature testing. May be provided with slots and metal spring clip for rail-mounting.
3. These devices should be mounted within a suitable ultimate enclosure and with proper spacings being maintained.
4. These devices are intended for factory wiring only.
5. These devices have not been evaluated for making and breaking a load. Relays shall therefore not be installed or removed under load.
6. Plug-in Modules are only mating in the following sockets
 - Relay, open type, Type HR70

Ratings:

HR70, 2 changeover contacts

250V 10A General use 100,000 cycles

HR70, 3 changeover contacts

250V 10A General use 100,000 cycles

3 changeover contacts:

- 10 A, 250 V ac, Resistive, 100,000 cycles, NO+NC.
- 10 A, 30 V dc, Resistive, 100,000 cycles, NO+NC.
- 10 A (NO) / 5 A (NC), 250 V ac, Resistive, 100,000 cycles.
- 10 A (NO) / 5 A (NC), 30 V dc, Resistive, 100,000 cycles.
- 1/3 HP (3.6 A FLA), 240 V ac, 5,000 cycles, NO+NC.
- 1/3 HP (7.2 A FLA), 120 V ac, 5,000 cycles, NO+NC.
- 1/2 HP (4.1 A FLA), 277 V ac, 5,000 cycles, NO+NC.

2 changeover contacts:

- 10 A, 250 V ac, Resistive, 100,000 cycles, NO+NC.
- 10 A, 30 V dc, Resistive, 100,000 cycles, NO+NC.
- 1/3 HP (3.6 A FLA), 240 V ac, 1,000 cycles, NO+NC.
- 1/3 HP (7.2 A FLA), 120 V ac, 1,000 cycles, NO+NC.
- 1/2 HP (4.1 A FLA), 277 V ac, 1,000 cycles, NO+NC.
- 5 A, 150 V dc, Resistive, 10,000 cycles, NO.
- 2 A, 150 V dc, Resistive, 10,000 cycles, NC.

Note:

1. These devices should be used within their electrical ratings as specified above.



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2. Open type devices should be mounted in enclosures having adequate strength and thickness and in the intended manner with acceptable spacing provided.
3. The terminals are to be factory wired only and the suitability of the connection (including spacing between factory connectors) shall be determined.
4. The spacing from the exposed live metal parts to the enclosure walls shall be in accordance with the requirements of the overall equipment.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 14-18 - Industrial control equipment

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

A permanent-type nameplate shall be attached to the individual component or complete assembly and provide. The following information appears on the nameplate.

- Submitter's name and/or CSA Master Contract number "**272417**", or trademark, adjacent to the CSA Monogram.
- Model designation or equivalent.
- Rated voltage, rated amperes.
- Max surrounding air temperature 70 °C (or 85 °C for HR1XS series).
- Wiring diagrams and marked terminals.
- CSA Mark (The product may bear one of the following CSA markings: "CSA, or CSA us , or cCSAus")

Note: For open-type equipment or in cases where it is not practical to place a mark on the device, this information may be placed on the smallest carton or on an instruction sheet included with the device.