



Certificate of Compliance

Certificate: 1042655 (LR 31928-537)

Master Contract: 203878

Project: 2711006

Date Issued: March 26, 2014

Issued to: Omron Electronics LLC

One Commerce Dr
Schaumburg, IL 60173
USA

Attention: Mr. Thomas George

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



T. Munteanu

Issued by: T. Munteanu, P.Eng.

PRODUCTS

CLASS 3211 07 - INDUSTRIAL CONTROL EQUIPMENT - Miscellaneous Apparatus

CLASS 3211 87 - INDUSTRIAL CONTROL EQUIPMENT - Miscellaneous Apparatus -
Certified to US Standards

PRODUCT COVERED:

Type G2R followed by 1 or 2, may be followed by A or B, may be followed by Z or 3, may be followed by 2 or 4, may be followed by C, S, T or TP, may be followed by D, E, E-TB, H, H2, H3, H4, N, ND, U or Z, maybe followed by I, may be followed by optional letter(s) and/or number(s), may be followed by AS-E, ASI, ASI-E, AS-TB or AS-TB-E or E or *ACD, may be followed by AP# or AUL, may be followed by T130 or T115, may be followed by (S), may be followed by (L), may be followed by 3 to 110 V dc or 3 to 240 V ac, may be followed by Y90, may be followed by optional letter(s) and/or number(s).

Relays, alternate type of Type G2R-1, G2R-2, G2RG-2 and G2R-UA with suffixes, open type, with dust cover, coils 3 through 240V ac and 3 through 110V dc. Max ratings as follows:

I. - G2R-1 Single Contact

a. Contact material/Suffix: AgSnInO/Blank or -ASI

- 30V ac, 10A, resistive (Test conditions - Standard ambient, 6,000 operations)

- 30V dc, 10A, resistive (Test conditions - Standard ambient, 100,000 operations)



Certificate: 1042655 (LR 31928-537)

Master Contract: 203878

Project: 2711006

Date Issued: March 26, 2014

- 250V ac, 10A (Test conditions - Standard ambient, 6,000 operations)
- 250V ac, 10A (Test conditions - Standard ambient, 100,000 operations)
- 250V ac, 10A, resistive (Test conditions - 60°C ambient, 30,000 operations)
- 277V ac, 5A (Test conditions - Standard ambient, 6,000 operations)
- 250V ac, 5A (Test conditions - 84°C ambient, 100,000 operations)
- 277V ac, 10A (Test conditions - Standard ambient, 6,000 operations)
- 250V ac, 5A (Test conditions - 84°C ambient, 100,000 operations)
- 277V ac, 10A (Test conditions - Standard ambient, 6,000 operations)
- 120V ac, 3A (360W) tungsten (Test conditions - Standard ambient, 25,000 operations)
- TV-3 (Standard ambient, 25,000 operations)
- TV-5 (Standard ambient, 25,000 operations)
- TV-8 (N.O. contacts) (Standard ambient, 25,000 operations)
- 125V ac, 1/4Hp (Test conditions - Standard ambient, 1,000 operations)
- 250V ac, 1/2Hp (Test conditions - Standard ambient, 1,000 operations)
- 277V ac, 1/2Hp (Test conditions - Standard ambient, 1,000 operations)
- 120V ac, 1/3Hp (N.O. contacts) (Test conditions - 84°C ambient, 30,000 operations)
- 120V ac, 1/3Hp (N.C. contacts) (Test conditions - 84°C ambient, 20,000 operations)
- 125V ac, 1/3Hp (N.O. contacts) (Test conditions - 70°C ambient, 30,000 operations)
- 125V ac, 1/3Hp (N.C. contacts) (Test conditions - 70°C ambient, 20,000 operations)
- 120V ac, 250VA pilot duty (Test conditions - 84°C ambient, 30,000 operations)
- B300 (Test conditions - 60°C ambient, 30,000 operations)
- 250V ac, 1.8 FLA, 18 LRA (Test conditions - 60°C ambient, 30,000 operations)
- 250V ac, 10A (Test conditions - 70°C ambient, 100,000 operations)
- 250V ac, 8A (Test conditions - 60°C ambient, 30,000 operations)
- 1/4Hp, 120V ac, 70°C 6,000 operations



Certificate: 1042655 (LR 31928-537)

Master Contract: 203878

Project: 2711006

Date Issued: March 26, 2014

-B300, 120/240V ac, 70°C, 6,000 operations

For suffix (L)

- 250V ac, 10A, resistive (Test conditions - 40°C ambient, 100,000 operations)

- 30V dc, 10A, resistive (Test conditions - 40°C ambient, 100,000 operations)

B. Contact material/Suffix: AgCdO/-ACD

- 30V dc, 10A, resistive (Test conditions - Standard ambient, 100,000 operations)

- 250V ac, 10A (Test conditions - Standard ambient, 6,000 operations)

- 250Vac, 10A (Test conditions - Standard ambient, 100,000 operations)

- 250V ac, 10A, resistive (Test conditions - 60°C ambient, 30,000 operations)

- 277V ac, 5A (Standard ambient, 6,000 operations)

- 250V ac, 5A (Test conditions - 84°C ambient, 100,000 operations)

- 277V ac, 10A (Test conditions - Standard ambient, 6,000 operations)

- 120V ac, 3A (360W) tungsten (Test conditions - Standard ambient, 25,000 operations)

- TV-3 (Standard ambient, 25,000 operations)

- 125V ac, 1/4Hp (Standard ambient, 1,000 operations)

- 250V ac, 1/2Hp (Standard ambient, 1,000 operations)

- 277V ac, 1/2Hp (Standard ambient, 1,000 operations)

- 120V ac, 1/3Hp (Test conditions - 84°C ambient, 30,000 operations)

- 125V ac, 1/3Hp (Test conditions - 70°C ambient, 30,000 operations)

- 120V ac, 250VA pilot duty (Test conditions - 84°C ambient, 30,000 operations)

- B300 (Test conditions - 60°C ambient, 30,000 operations)

- 250V ac, 1.8 FLA, 18 LRA (Test conditions - 60°C ambient, 30,000 operations)

- 250V ac, 10A (Test conditions - 70°C ambient, 100,000 operations)

- 250V ac, 8A (Test conditions - 60°C ambient, 30,000 operations)

For suffix (L)



Certificate: 1042655 (LR 31928-537)

Master Contract: 203878

Project: 2711006

Date Issued: March 26, 2014

- 250V ac, 5A, resistive (Test conditions - 40°C ambient, 100,000 operations)
- 30V dc, 5A, resistive (Test conditions - 40°C ambient, 100,000 operations)
- c. Contact material/Suffix: AgSnInO/-E or -E and -ASI
- 30V ac, 10A, resistive (Standard ambient, 6,000 operations)
- 30V dc, 10A, resistive (Standard ambient, 6,000 operations)
- 35V dc, 10A resistive (Test conditions - Standard ambient, 30,000 operations)
- 30V dc, 16A resistive (Standard ambient, 6,000 operations)
- 250V ac, 16A resistive (N.O.) (Test conditions - 85°C ambient, 100,000 operations)
- 250V ac, 10A (Standard ambient, 6,000 operations)
- 250V ac, 16A (Standard ambient, 6,000 operations)
- 125V ac, 15A (Test conditions - 70°C ambient, 30,000 operations)
- 277V ac, 20A (Test conditions - 70°C ambient, 30,000 operations)
- 240V ac, 20A (70°C ambient, 30,000 operations)
- 120V ac, 3A (360W) tungsten (Test conditions - Standard ambient, 25,000 operations)
- 120V ac, 5A (600W) tungsten (Test conditions - Standard ambient, 25,000 operations)
- TV3 (N.O. Contacts) (Standard ambient, 25,000 operations)
- TV-8 (N.O. contacts) (Standard ambient, 25,000 operations)
- 240V ac 1 Hp (Standard ambient, 1,000 operations)
- 120V ac, ½ Hp (Standard ambient, 1,000 operations)
- 120V ac, 1/3Hp (Standard ambient, 1,000 operations)
- 250V ac, ½ Hp (Standard ambient, 1,000 operations)
- 240V ac, 3A, pilot duty (Test conditions - 65°C ambient, 30,000 operations)
- 120V ac, 5FLA, 20LRA (N.O.) (Test conditions - 75°C ambient, 30,000 operations)
- 120V ac, 10.5FLA, 63LRA (N.O.) (Test conditions - 70°C ambient, 30,000 operations)
- 250V ac, 2FLA, 12 LRA (Test conditions - 60°C ambient, 30,000 operations)



Certificate: 1042655 (LR 31928-537)

Master Contract: 203878

Project: 2711006

Date Issued: March 26, 2014

- 125V ac, 10FLA, 60LRA (N.O.) (Test conditions - 74°C ambient, 100,000 operations)
- 125V ac, 500VA pilot duty (N.O.) (Test conditions - 74°C ambient, 100,000 operations)
- d Contact material/Suffix: AgCdO/-E and -ACD
 - 30V dc, 10A, resistive (Test conditions - Standard ambient, 30,000 operations)
 - 30V dc, 16A resistive (Standard ambient, 6,000 operations)
 - 250V ac, 10A (Standard ambient, 6,000 operations)
 - 250V ac, 16A (Standard ambient, 6,000 operations)
 - 125V ac, 15A (Test conditions - 70°C ambient, 30,000 operations)
 - 277V ac, 20A (Test conditions - 70°C ambient, 30,000 operations)
 - 240V ac, 20A (Test conditions - 70°C ambient, 30,000 operations)
 - 120V ac, 3A (600W) tungsten (Test conditions - Standard ambient, 25,000 operations)
 - TV-3 (N.O. contacts) (Standard ambient, 25,000 operations)
 - 240V ac, 1 Hp (Standard ambient, 1,000 operations)
 - 120V ac, ½ Hp (Standard ambient, 1,000 operations)
 - 120V ac, 1/3 Hp (Standard ambient, 1,000 operations)
 - 250V ac, ½ Hp (Standard ambient, 1,000 operations)
 - 240V ac, 3A, pilot duty (Test conditions - 65°C ambient, 30,000 operations)
 - 120V ac, 5FLA, 20LRA (N.O.) (Test conditions - 75°C ambient, 30,000 operations)
 - 120V ac, 10.5FLA, 63LRA (N.O.) (Test conditions - 70°C ambient, 30,000 operations)
 - 250V ac, 2FLA, 12LRA (Test conditions - 60°C ambient, 30,000 operations)
 - 120V ac 11A {Test conditions - 70°C, 100,000 operations at 1s On, 3s Off}
- e. Contact material/Suffix: AgSnO/-E and -AS
 - 35V dc, 10A, resistive (Test conditions - Standard ambient, 30,000 operations)
 - 30V dc, 16A, resistive (Standard ambient, 6,000 operations)
 - 250V ac, 16A (Test conditions - Standard ambient, 30,000 operations)



Certificate: 1042655 (LR 31928-537)

Master Contract: 203878

Project: 2711006

Date Issued: March 26, 2014

- 125V ac, 15A (Test conditions - 70°C ambient, 30,000 operations)
- 277V ac, 20A (Test conditions - 70°C ambient, 30,000 operations)
- 240V ac, 20A (Test conditions - 70°C ambient, 30,000 operations)
- 120V ac, 3A (360W), tungsten (Test conditions - Standard ambient, 25,000 operations)
- TV-3 (N.O. contacts) (Standard ambient, 25,000 operations)
- 240V ac, 1 Hp (Standard ambient, 1,000 operations)
- 120V ac, 1/3 Hp (Standard ambient, 1,000 operations)
- 250V ac, 1/2 Hp (Standard ambient, 1,000 operations)
- 240V ac, 3A pilot duty (Test conditions - 65°C ambient, 30,000 operations)
- 120V ac, 5 FLA, 20 LRA (Test conditions - 75°C ambient, 30,000 operations)
- 120V ac, 10.5 FLA, 63 LRA (N.O.) (Test conditions - 70°C ambient, 30,000 operations)
- 250V ac, 2FLA, 12 LRA (Test conditions - 60°C ambient, 30,000 operations)
- 120V ac 11A {70°C, 100,000 operations (1s On, 3s Off)}
- 250V ac, 10A (Inductive, UL 917) (N.O. only)(standard ambient, 6,000 operations)
- f. Contact Material/Suffix: AgSnO/-AS
- 30V dc, 10A resistive, (Test conditions - Standard ambient, 100,000 operations)
- 250V ac, 8A, resistive (Test conditions - 60°C ambient, 30,000 operations)
- 250V ac, 10A (Test conditions - 70°C ambient, 100,000 operations)
- 277V ac, 10A (Standard ambient, 6,000 operations)
- 250V ac, 5A (Test conditions - 84°C ambient, 100,000 operations)
- 120V ac, 3A, tungsten (360W) (Test conditions - Standard ambient, 25,000 operations)
- TV-3 (N.O.) (Standard ambient, 25,000 operations)
- 120V ac, 1/4 Hp (Standard ambient, 1,000 operations)
- 250V ac, 1/2 Hp (Standard ambient, 1,000 operations)
- 277V ac, 1/2 Hp (Standard ambient, 1,000 operations)



Certificate: 1042655 (LR 31928-537)

Master Contract: 203878

Project: 2711006

Date Issued: March 26, 2014

- 125V ac, 1/3 Hp (Test conditions - 84°C ambient, 30,000 operations)
- 120V ac, 250VA, pilot duty (Test conditions - 84°C ambient, 30,000 operations)
- B300, pilot duty (Standard ambient, 6,000 operations)
- 250V ac, 2FLA, 12LRA (Test conditions - 60°C ambient, 30,000 operations)
- g. Contact material/Suffix: AgSnIn/ -S or -T
- 30V ac, 10A, resistive (Standard ambient, 6,000 operations)
- 30V dc, 10A, resistive (Test conditions - Standard ambient, 100,000 operations)
- 250V ac, 10A (Standard ambient, 6,000 operations)
- 250Vac, 10A (Test conditions - Standard ambient, 100,000 operations)
- 277V ac, 5A (Standard ambient, 6,000 operations)
- 120V ac, 5A (600W) tungsten (Test conditions - Standard ambient, 25,000 operations)
- TV-5 (Standard ambient, 25,000 operations)
- TV- 8 (N.O. contacts) (Standard ambient, 25,000 operations)
- 125V ac, 1/4Hp (Standard ambient, 1,000 operations)
- 250V ac, 1/2Hp (Standard ambient, 1,000 operations)
- 277V ac, 1/2Hp (Standard ambient, 1,000 operations)
- 250V ac, 10A, resistive (Test conditions - 60°C ambient, 30,000 operations)
- 250V ac, 5A (Test conditions - 84°C ambient, 100,000 operations)
- 120V ac, 3A (360W) tungsten (Test conditions - Standard ambient, 25,000 operations)
- TV-3 (Standard ambient, 25,000 operations)
- 120V ac, 1/3Hp (Test conditions - 84°C ambient, 30,000 operations)
- 125V ac, 1/3Hp (Test conditions - 70°C ambient, 30,000 operations)
- 120V ac, 250VA pilot duty (Test conditions - 84°C ambient, 30,000 operations)
- B300 (Test conditions - 60°C ambient, 30,000 operations)
- 250V ac, 1.8 FLA, 18 LRA (Test conditions - 60°C ambient, 30,000 operations)



Certificate: 1042655 (LR 31928-537)

Master Contract: 203878

Project: 2711006

Date Issued: March 26, 2014

- 250V ac, 10A (Test conditions - 70°C ambient, 100,000 operations)

- 250V ac, 8A (Test conditions - 60°C ambient, 30,000 operations)

-277V ac, 10A (Test condition - Standard ambient, 6,000 operations)

II. - G2R-1 Twin Contact

a. Contact Material/Suffix: AgSnInO/Z

- 30V dc, 5A resistive (Standard ambient, 6,000 operations)

- 250V ac, 5A (Standard ambient, 6,000 operations)

b. Contact material/Suffix: AgCdO/Z

- 30V dc, 5A resistive (Standard ambient, 6,000 operations)

- 250V ac, 5A (Standard ambient, 6,000 operations)

c. Contact material/Suffix: Crossbar Au Clad/3

- 30V ac/dc, 1A, resistive (Standard ambient, 6,000 operations)

- 250V ac, 1A (Standard ambient, 6,000 operations)

III. - G2R-2 Single Contact

a. Contact material/Suffix: Ag or AgNi/ Blank

- 30V dc, 5A resistive (Test conditions - Standard ambient, 100,000 operations)

- 250V ac, 5A resistive (Test conditions - Standard ambient, 100,000 operations)

- 120V ac, 5A (Standard (6,000 operations)

- 250V ac, 5A (Standard ambient, 6,000 operations)

- 120V ac, 3A (360W) tungsten (Test conditions - Standard ambient, 25,000 operations)

- 120V ac, 1/10 Hp (Standard ambient, 1,000 operations)

- 125V ac, 1/10Hp (Standard ambient, 1,000 operations)

- 250V ac, 1/10 Hp (Standard ambient, 1,000 operations)

- 240V ac, 1/4 Hp (Standard ambient, 1,000 operations)

- 120V ac, 1/6 Hp (Standard ambient, 1,000 operations)



Certificate: 1042655 (LR 31928-537)

Master Contract: 203878

Project: 2711006

Date Issued: March 26, 2014

- 240V ac, 1/3 Hp (Standard ambient, 1,000 operations)
- 265V ac, 1/6 Hp (Test conditions - Standard ambient, 30,000 operations)
- 265V ac, 1/3 Hp (Test conditions - Standard ambient, 30,000 operations)
- b. Contact material/Suffix: AgSnInO/Blank or -ASI
- 30V dc, 5A resistive (Test conditions - Standard ambient, 100,000 operations)
- 240V ac, 5A resistive (Test conditions - Standard ambient, 100,000 operations)
- 30V dc, 10A resistive (Test conditions - Standard ambient, 50,000 operations)
- 120V ac, 5A (Standard ambient, 6,000 operations)
- 250V ac, 5A (Standard ambient, 6,000 operations)
- 250V ac, 5A (Test conditions - 84°C ambient, 100,000 operations)
- 125V ac, 5A (Test conditions - 70°C ambient, 30,000 operations)
- 277V ac, 10A (Test conditions - Standard ambient, 20,000)
- TV-3 (N.O.) (Standard ambient, 25,000 operations)
- 120V ac, 1/10 Hp (Standard ambient, 1,000 operations)
- 125V ac, 1/10 Hp (Standard ambient, 1,000 operations)
- 250V ac, 1/10 Hp (Standard ambient, 1,000 operations)
- 240V ac, 1/4Hp (Standard ambient, 1,000 operations)
- 120V ac, 1/6 Hp (Standard ambient, 1,000 operations)
- 240V ac, 1/3 Hp (Standard ambient, 1,000 operations)
- 265V ac, 1/6 Hp (Test conditions - Standard ambient, 30,000 operations)
- 265V ac, 1/3 Hp (Test conditions - Standard ambient, 30,000 operations)
- 240V ac, 5A, pilot duty (Test conditions - Standard ambient, 100,000 operations)
- 120V ac, 5A, pilot duty (Test conditions - Standard ambient, 100,000 operations)
- 120V ac, 250VA pilot duty (Test conditions - 84°C ambient, 30,000 operations)
- B300 (Standard ambient, 6,000 operations)



Certificate: 1042655 (LR 31928-537)

Master Contract: 203878

Project: 2711006

Date Issued: March 26, 2014

-250V ac, 5A resistvie, 70°C, 6,000 operations

-30V dc, 5A resistive, 70°C, 6,000 operations

-1/4Hp, 120V ac, 70°, 6,000 operations

-B300, 120/240V ac, 70°C, 6,000 operations.

c. Contact material/Suffix: AgCdO/-ACD

- 30V dc, 5A resistive (Test conditions - Standard ambient, 100,000 operations)

- 240V ac, 5A resistive (Test conditions - Standard ambient, 100,000 operations)

- 120V ac, 5A (Standard ambient, 6,000 operations)

- 250V ac, 5A (Standard ambient, 6,000 operations)

- 250V ac, 5A (Test conditions - 84°C ambient, 100,000 operations)

- TV-3 (N.O.) (Standard ambient, 25,000 operations)

- 120V ac, 1/10 Hp (Standard ambient, 1,000 operations)

- 125V ac, 1/10 Hp (Standard ambient, 1,000 operations)

- 250V ac, 1/10 Hp (Standard ambient, 1,000 operations)

- 240V ac, 1/4Hp (Standard ambient, 1,000 operations)

- 120V ac, 1/6 Hp (Standard ambient, 1,000 operations)

- 240V ac, 1/3 Hp (Standard ambient, 1,000 operations)

- 265V ac, 1/6 Hp (Test conditions - Standard ambient, 30,000 operations)

- 265V ac, 1/3 Hp (Test conditions - Standard ambient, 30,000 operations)

- 30V dc, 5A resistive (Test conditions - Standard ambient, 100,000 operations)

- 30V dc, 10A resistive (Test conditions - Standard ambient, 50,000 operations)

- 125V ac, 5A (Test conditions - 70°C ambient, 30,000 operations)

- 277V ac, 10A (Test conditions - Standard ambient, 100,000 operations)

- 120V ac, 250VA pilot duty (Test conditions - 84°C ambient, 30,000 operations)

- B300 (Standard ambient, 6,000 operations)



Certificate: 1042655 (LR 31928-537)

Master Contract: 203878

Project: 2711006

Date Issued: March 26, 2014

d. Contact material/Suffix: AgSnInO/ -S or -T

- 35V dc, 5A resistive (Test conditions - Standard ambient, 100,000 operations)
- 240V ac, 5A resistive (Test conditions - Standard ambient, 100,000 operations)
- 120V ac, 5A (Standard ambient, 6,000 operations)
- 250V ac, 5A (Standard ambient, 6,000 operations)
- 250V ac, 5A (Test conditions - 84°C ambient, 100,000 operations)
- TV-3 (N.O.) (Standard ambient, 25,000 operations)
- 120V ac, 1/10 Hp (Standard ambient, 1,000 operations)
- 125V ac, 1/10 Hp (Standard ambient, 1,000 operations)
- 250V ac, 1/10 Hp (Standard ambient, 1,000 operations)
- 240V ac, 1/4Hp (Standard ambient, 1,000 operations)
- 120V ac, 1/6 Hp (Standard ambient, 1,000 operations)
- 240V ac, 1/3 Hp (Standard ambient, 1,000 operations)
- 265V ac, 1/6 Hp (Test conditions - Standard ambient, 30,000 operations)
- 265V ac, 1/3 Hp (Test conditions - Standard ambient, 30,000 operations)
- 30V dc, 5A resistive (Test conditions - Standard ambient, 100,000 operations)
- 30V dc, 10A resistive (Test conditions - Standard ambient, 50,000 operations)
- 125V ac, 5A (Test conditions - 70°C ambient, 30,000 operations)
- 277V ac, 10A (Test conditions - Standard ambient, 100,000 operations)
- 120V ac, 250VA pilot duty (Test conditions - 84°C ambient, 30,000 operations)
- B300 (Standard ambient, 6,000 operations)

IV. Cat No G2RG-2

- 250V ac, 6A, resistive (Test conditions - 70°C ambient, 10,000 operations)

V. Cat No G2RG-2A



Certificate: 1042655 (LR 31928-537)

Master Contract: 203878

Project: 2711006

Date Issued: March 26, 2014

- 250V ac, 8A, resistive (Test conditions - 70°C ambient, 10,000 operations)

- 250V ac, 12A, resistive (Test conditions - 23°C ambient, 30,000 operations)

-24V dc, 8A, resistive (Test conditions - 70°C ambient, 100,000 operations)

-30V dc, 12A, resistive (Test conditions - 40°C ambient, 30,000 operations)

Cat No G2R-UA followed by a number from 000000 through 99999: is a customer typical part number and has the same rating of Cat No G2R-1 and -2 standard types.

Notes:

Notes:

1. Suffix letters and numbers added to type designation to form catalogue numbers, and indicate number of poles, contact arrangement, dust cover, terminal type, contact material, insulation class, etc.
2. Open type relays are Certified for use only as components in equipment where the suitability of the combination is to be determined by the CSA International
3. In devices with Class B (130°C) and Class (155°C) insulation system, the plastics that are not included in the Class B systems are rated at least 120C in the provided thickness.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 0.6 - Flammability Testing of Polymeric Materials

CAN/CSA-C22.2 No. 1 - Radio, Television and Electronic Apparatus

C22.2 No. 14 - Industrial Control Equipment

UL Std No. 508 - Industrial Control Equipment