Certificate of Compliance

Certificate: 2313251 **Master Contract:** 204075

Project: 70200312 **Date Issued:** 2018-11-29

Issued to: **Carlo Gavazzi Ltd.**
BLB042 Bulebel Ind. Estate
Zejtun, ZTN3000
MALTA

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

Issued by: *Khalil Ouldchama*
Khalil Ouldchama, P. Eng.

PRODUCTS
CLASS - C321106 - INDUSTRIAL CONTROL EQUIPMENT-Motor Controllers - Miscellaneous

RGS Basic Series:

Switches industrial control - solid state relays, for industrial use, Cat No. RGS, followed by 1, followed by A or B, followed by 23, 40, 48 or 60, followed by D or A, followed by 25, 50, 51, 75, 71, 90, 91 or 92 (the code RGS1B_A is not available), followed by K, M, G, followed by KE, followed by GE, may be followed by Z, may be followed by suffixes (figures and numbers). Rated 600 Vac max, 90 A general use; 600 Vac max, 1-phase, 15 HP, 27 FLA, with recommended aluminum heat sink (see manufacturer's product specification sheets for details).

Switches industrial control - solid state relays, for industrial use, Cat No. RGS, followed by 1, followed by A or B, followed by 23, 40, 48 or 60, followed by D or A (the code RGS1B_A is not available), followed by 20 or 30, followed by K, M or G, followed by GE or GU, may be followed by Z, may be followed by suffixes (figures and numbers). Rated 600 Vac max, 30 A max general use; 600 Vac max, 1-phase, 5 HP, 11.2 FLA, with recommended aluminum heat sink (see manufacturer's product specification sheets for details).

Switches industrial control - solid state relays, for industrial use, Cat No. Cat No. RGS, followed by 1, followed by A or B, followed by 23, 40, 48 or 60, followed by D or A (the code RGS1B_A is not available), followed by 40, 60, followed by K, M or G, followed by GE, may be followed by Z, may be followed by suffixes (figures and numbers). Rated 600 Vac max, 85 A max general use; 600 Vac max, 1-phase, 15 HP, 27 FLA, with recommended aluminum heat sink (see manufacturer's product specification sheets for details).

Switches industrial control - solid state relays, for industrial use, Cat No. Cat No. RGS, followed by 1, followed by A or B, followed by 23, 40, 48 or 60, followed by D or A (the code RGS1B_A is not available), followed by 40, 60, 90, followed by K, M or G, followed by GU, may be followed by Z, may be followed by suffixes (figures and numbers). Rated 600 Vac max, 85 A max general use; 600 Vac max, 1-phase, 15 HP, 27 FLA, with recommended aluminum heat sink (see manufacturer's product specification sheets for details).

RGS1D Series:
Switches industrial control - solid state relays, for industrial use, Cat No. RGS, followed by 1, followed by D, followed by 1000, followed by D, followed by 15 or 25, followed by K, followed by K, followed by E, may be followed by suffixes. Rated 600 Vdc max, 25 A general use; 600 Vdc max, 1-phase, 2 HP, 3.6 FLA, with recommended aluminum heat sink (see manufacturer's product specification sheets for details).

RGS1S Series:
Switches industrial control - solid state relays, for industrial use, Cat No. RGS, followed by 1, followed by S, followed by 23, 40, 48 or 60, followed by D, followed by 20, 30 or 31, followed by G, followed by KE, GE or GU, followed by P, may be followed by suffixes (figures and numbers). Rated 600 Vac max, 30 A general use; 600 Vac max, 1-phase, 5 HP, 11.2 FLA, with recommended aluminum heat sink (see manufacturer's product specification sheets for details).
Switches industrial control - solid state relays, for industrial use, Cat No. RGS, followed by 1, followed by S, followed by 23, 40, 48 or 60, followed by D, followed by 41, 61 or 90, followed by G, followed by GE or GU, followed by P, may be followed by suffixes (figures and numbers). Rated 600 Vac max, 85 A max general use; 600 Vac max, 1-phase, 15 HP, 27 FLA, with recommended aluminum heat sink (see manufacturer's product specification sheets for details).

RGS_OTP Series:
Switches industrial control - solid state relays, for industrial use, Cat No. RGS, followed by 1, followed by A or B, followed by 23, 40, 48 or 60, followed by D or A, followed by 20 or 30, (the code RGS1B_A is not available), followed by G, followed by KE, GE or GU, followed by P or PZ, may be followed by suffixes. Rated 600 Vac max, 30 A max general use; 600 Vac max, 1-phase, 5 HP, 11.2 FLA, with recommended aluminum heat sink (see manufacturer's product specification sheets for details).

Switches industrial control - solid state relays, for industrial use, Cat No. RGS, followed by 1, followed by A or B, followed by 23, 40, 48 or 60, followed by D or A, followed by 40, 60 or 90 (the code RGS1B_A is not available), followed by G, followed by GE or GU, followed by P or PZ, may be followed by suffixes. Rated 600 Vac max, 85 A max general use; 600 Vac max, 1-phase, 15 HP, 27 FLA, with recommended aluminum heat sink (see manufacturer's product specification sheets for details).

RGS1P Series Current Control (No Auxiliary Supply):
Switches industrial control - solid state relays, for industrial use, Cat No. RGS, followed by 1, followed by P, followed by 23, 40, 48 or 60, followed by AA, followed by 30, 50 or 92, (the codes RGS1P_30E and RGS1P_92U are not available), followed by E or U, may be followed by suffixes. Rated 600 Vac max, 90 A max general use; 600 Vac max, 1-phase, 15 HP, 27 FLA, with recommended aluminum heat sink (see manufacturer's product specification sheets for details).

RGS1P Series with Auxiliary Supply:
Switches industrial control - solid state relays, for industrial use, Cat No. RGS, followed by 1, followed by P, followed by 23, 40, 48 or 60, followed by I, V or K, followed by 30, 50 or 92, (the codes RGS1P_30E and RGS1P_92U are not available), followed by E or U, followed by D or A, may be followed by suffixes. Rated 600 Vac max, 90 A max general use; 600 Vac max, 1-phase, 15 HP, 27 FLA, with recommended aluminum heat sink (see manufacturer's product specification sheets for details).

RGS1_N end Devices Series:
Switches industrial control - solid state relays with integrated communication function, for industrial use, open type, Cat No. RGS1, followed by A or B, followed by 23, 40, 48 or 60, followed by D, followed by 30, 50, 90 or 92, followed by K or G, followed by E (E not available for RGS1_30) or U (U available for RGS1_30 only), followed by N, may be followed by suffixes. Rated 600 Vac max, 90 A max general use; 600 Vac max, 1-phase, 15 HP, 27 FLA, with recommended aluminum heat sink (see manufacturer's product specification sheets for details).
Accessories for the RGS1_N End devices Series: controller Cat. No. NRGC.

RGS1_M Monitoring Series:
Cat. No. RGS1, followed by A or B, followed by 23,40,48 or 60, followed by D, followed by 25, 50, 51, 71, 75, 90, 91 or 92, followed by K or G, followed by E or U, followed by M, may be followed by suffixes. Rated 600 Vac max, 90 A max general use; 600 Vac max, 1-phase, 15 HP, 27 FLA, with recommended aluminum heat sink (see manufacturer's product specification sheets for details).
The RGS1_M is an open type solid state relay with integrated function module.
The RGS1_M is composed by the following separate parts: monitoring module and power module.

Conditions of Acceptability:

1. Model designation is completed with digits indicating electrical and mechanical details.
2. The terminals are suitable for factory wiring only.
3. The current rating may vary depending on the external heat sink recommended by manufacturer according to the derating curve provided with each relay.
4. These devices are certified as open type components where the suitability of the combination, in the final application, is determined by CSA Group.

APPLICABLE REQUIREMENTS

CSA-C22.2 No. 14-18 – Industrial Control Equipment

Supplement to Certificate of Compliance

Certificate: 2313251 **Master Contract:** 204075

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
70200312	2018-11-29	Addition of new designation series RGS1_M of open type solid state relays, with integrated function module and is similar in construction to previously tested RGS basic series, same power module and heatsink. Addition of new designation series RGS1_M of open type solid state relays, with integrated function module and is similar in construction to previously tested RGS basic series, same power module and heatsink.
70175921	2018-09-14	Update of report to cover addition of Solid State Relays series RGS_N, by acceptance of UL Test Data, to the requirements of Standard CSA-C22.2 No. 14-13. Update of report to cover addition of Solid State Relays series RGS_N, by acceptance of UL Test Data, to the requirements of Standard CSA-C22.2 No. 14-18 as per CSA notice for Industrial Control Equipment No. 60.
70031676	2015-06-16	Addition of Solid State Relays series RGS1P, by acceptance of UL Test Data, to the requirements of Standard CSA-C22.2 No. 14-13.
2636402	2013-07-19	Addition of Solid State Relays model RGS..92 and addition of alternate power semiconductors and alternate heatsinks, to the requirements of Standard CAN/CSA-C22.2 No. 14-13.
2413171	2011-04-26	Full certification of Solid State Relays, RGS1S Series, RGS_OTP Series and new GE and GU power modules, as per Std. CSA-C22.2 No. 14-10.
2381510	2011-01-12	Full certification of a DC Solid State Relay, model RGS1D, as per Std. CAN/CSA-C22.2 No. 14-10.
2313251	2010-06-14	Original certification of Solid State Relays, RGS Series, as per Std. CAN/CSA C22.2 No. 14-10.