CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1066857 **Master Contract:** 204075

Project: 2380666 **Date Issued:** January 6, 2011

Issued to: **Carlo Gavazzi Ltd.**

BLB042 Bulebel Industrial Estate
Zejtun ZTN3000,
Malta
Attention: Mario Zahra

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

Omar Elouadrhiri Eng

Issued by: Omar Elouadrhiri Eng

PRODUCTS

CLASS 3211 07 - INDUSTRIAL CONTROL EQUIPMENT - Miscellaneous Apparatus

- Solid state relays, Series RS and RP with suffixes, open type fully encapsulated construction, input, Type 0:3 to 32V dc, Type 1: 10 to 90V ac/dc and Type 2: 90 to 280V ac/dc, output Series RS, 40A max, Series RP, 4A max.
- Solid state relays, single ph, 47-63Hz, open type, fully encapsulated construction, Models RP, RM, RC, RD, RA, RB; input for Models RP, RM, RC, RD, 32V dc max; Models RA, RB, 280V ac/dc max; load for Models RP, RM, 4A max at 480V ac max or 5A max at 280V ac max; Models RA, RB, RC (when used with a ventilated heatsink, RHS 301-F, 0.25C/W, 112 x 68 x 75 mm), 110A max at 600V ac mac. Model RE, analogue switching, input 4 to 20mA max, 8V dc max, load 10, 25 and 50A res., 600V ac max; Models RA2410 and RA2425 with suffix "NC" denoting normally closed contact. Low noise version, Model RAXX...-FO/D,-L/LF, fiber optic, 480V ac max, 25A max; Models RP30-XXX-X-XXX and RAPXX-A-X printed circuit board version, 480V ac max, 50/60Hz, 5A max.
- Solid state relays, DC, open type, fully encapsulated, input 32V dc max; output 350V dc max; Model RP, 3A max; Model RD, 5A max and suffix-S01 indicates low trigger current.
- Solid state relays, 3 ph, open type, fully encapsulated; input 30V dc max; output 50A max, 600V ac max; Models RS300 for resistive loads, RS302 for inductive loads, RT202 for reversing of 3 ph motors, RS012 for soft starting/stopping of 3 ph motors rating at 600V ac, 50A max; RSO1650, 15 hp, RSO1690, 30 hp, RSO16110, 40 hp; RRO for starting/reversing of 3 ph motors; Models RTO, 60A dc max output, for dynamic braking of 3 ph motors; control modules RSC40HD12, RTC40HD12, RRC40HD12 for output modules RSO, RTO, RRO respectively.
- Power supply Cat. Nos. MS1115, MS1230 and MS1400 for use with "R" Series solid state relay and control modules, input 115V, 230V or 400V.
- Single Phase Models RA, RB and RC, maximum load 110A max general use at 600V ac max (when used with ventilated heat sink RHS 301-F with fan), Model RE, maximum load 50A max at 600V ac max (with heat sink) as per derating curve.

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- Special option of Model RA 4825-D12FS18, special heatsink for 1SSR and for 10SSR, rating for each SSR, 16A, 480V.
- Solid state relays, open type, fully encapsulated, protected or non-protected, triple or dual phase control, 50 or 60Hz, for use with a specific heatsink.
- Type RY, instant on switching, output current 55A max, output voltage 600V ac max, input voltage 12-24V dc, auxiliary circuit, 1A 240V ac max, D300 or 1A 24V dc max or 1A 350V dc max.
- Type RR2, 2 phase motor control, RR3, 3 phase motor control, output current 11 FLA max, output voltage 600V ac max, input voltage 90-140V ac or 180-290V ac or 12-24V dc, auxiliary circuit, 1A 240V ac max, D300 or 1A 24V dc max or 1A 350V dc max.
- Switches Industrial Control, solid state relays for industrial use, Cat. Nos. RA followed by 12, 23, 40 or 48; followed by 10, 25, 50, 90, 110; followed by L or H; followed by 6, 10, 12 or 16; followed by NO, NC, PQ or PC; may be followed by S; may be followed by F; may be followed by S18; may be followed by '#' (as last digit)
- Switches industrial control - solid state relays, open type, for industrial use, Cat. Nos. RA and RE, followed by 24, 40, 48, or 60; followed by 10, 25, 50, 90, 110; followed by -D, LD, HA, -A, or AA, may be followed by 6, 8, 12, or 16; may be followed by F; may be followed by S18, may be followed by additional suffixes, may be followed by "#" (as last digit).
- Cat. No. RA followed by 24; followed by 10, 25 or 40; followed by D or HA, followed by 06; may be followed by T; may be followed by F; may be followed by additional suffixes and numbers; may be followed by "#" (as last digit)
- Model RA or RB followed by 24, 40, 44 or 48, followed by 10, 25, 50 or 90, followed by HA, HD, LA, D, FO, followed by 06, 08, 10 or 12, may be followed by S, L or LF, may be followed by suffixes and numbers, may be followed by "#" (as last digit).
- Switches industrial control - Solid State Switches, Model RZ or RY followed by 24, 40, 48, or 60; followed by 10, 25, 40, or 55; followed by HD or HA; followed by P or U; followed by 0, 1, 2, or 3.
- Solid State Switches, Model RR2 or RR3; followed by I; followed by 40, 48, or 60; followed by 5, 10, 15, 25, 30, or 50; followed by HD, LA, or HA; followed by P.
- Model RP followed by 130; followed by 240 or 440; followed by 3 or 5; followed by 5, 12 or 24. Model RP1 followed by A or B followed by 23, 40 or 48 followed by D or A, followed by 3, 5 or 6, may be followed by suffix.
- Solid State Relay, Model RAP followed by 40 or 48; followed by A followed by 3 or 5.

Notes:
- The type designation is completed with letters and numbers indicating contact arrangement, electrical and mechanical details.
- Relay Series RS are used with an external heatsink, Type RHS04 (37 mm by 120 mm by 100 mm) or similar type.
- The current rating and the ambient temperature of each relay may vary depending on the size of the external heatsink suggested by manufacturer according to the derating curve provided for each relay.
- Certified for use in equipment where the acceptability of the combination is to be determined by CSA International.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 14-10 - Industrial Control Equipment