

CERTIFICATE OF COMPLIANCE

Certificate Number 4786952862_20151211-
Report Reference 4786952862_20151211_FSCER
Issue Date 2015-December-14th

Issued to: ROWAN ELETTRONICA S.r.l. |
Via Ugo Foscolo 20
Caldogno (VI), Italy - 36030 |

This is to certify that representative samples of Power Drive Systems Safety Related: |
Complete Drive Modules of C400 and C350 Series |

Have been investigated by UL in accordance with the Standards indicated on this Certificate.

Standard(s) for Safety: IEC 61800-5-2: 2007, "Adjustable Speed Electrical Power Drive Systems - Part 5-2: Safety Requirements - Functional", 1st Edition
IEC 61508: 2010, "Functional safety of electrical/electronic/programmable electronic safety-related systems", 2nd Edition
ISO 13849-1&2: 2006/2009, "Safety of machinery - Safety-related parts of control systems", 2nd Edition
IEC 62061:2015, "Safety of machinery – Functional safety of safety-related electrical, electronic and programmable electronic control systems" – 1.2 Edition |

Bruce A. Mahrenholz, CPO Director, North American Certification Programs
UL LLC

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Additional Information:

This design is based on put at disposition of the machine builder the IGBTs control energy the removing of which assures PWM cannot be anymore generated in inverter output stage so the integrity level of the system depends by the integrity level of the opening interface.

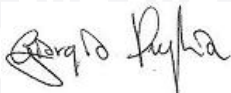
In this sense: "Safe Torque Off (STO)" as defined by IEC 61800-5-2 complies with the requirements for the following functional safety ratings:

- Up to SIL 3, as defined by IEC 61508, 2nd Edition, issued 2010
- Up to SIL 3 Capability, as defined by IEC 61800-5-2, 1st Edition, issued 2007
- Up to PL e, category 4 as defined by ISO 13849-1, 2nd Edition, issued 2006
- Up to SIL Claim Limit 3 as defined by IEC 62061, 1.2 Edition, issued 2015

The product must be installed, operated, and maintained, in accordance with the instructions for use.

Please note that the Functional Safety Certificate (in accordance with UL's product category FSCO) will not imply that UL has Listed, Classified or Recognized the product nor will the attached Report authorize the use of Listing, Classification, or Recognition Marks or other references to UL, on these products.

Reviewed by:



Giorgio Puglia
Senior Project Engineer



Thomas Maier
Principal Engineer

Bruce A. Mahrenholz, CPO Director, North American Certification Programs
UL LLC

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