



TYPE APPROVAL CERTIFICATE

N. ELE178616CS010



This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA type approval system.

<i>Description</i>	Overspeed protection system, redundant type
<i>Type</i>	RTE 12508
<i>Applicant</i>	SAN GIORGIO S.E.I.N. Srl Via A. Pedullà 59 16165 Genova Italy
<i>Manufacturer</i>	SAN GIORGIO S.E.I.N. Srl Via A. Pedullà 59 16165 Genova Italy
<i>Testing Standards</i>	Rules for the Classification of Ships – Part C – Machinery Systems and Fire protection – Ch. 3 Sect.6, Tab. 1

Issued in Genova on July 28, 2016.

This certificate is valid until July 28, 2021

RINA Services S.p.A.

Valerio Bonanni

Genova, July 28, 2016

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RTE12508 tachometer relay consists of:

Input: 2 pick-up for clockwise / unclockwise detection of rotation
2V pp (60 Hz to 15 kHz)

Output: 1 relay (NC) (C) (NO) for overspeed and 1 relay for starting sequence (sect. A)
1 relay (NC) (C) (NO) for overspeed and 1 relay for starting sequence (sect. B)
(trimmable threshold)

Failure alarms: power supply failure
microprocessor failure
pick-up failure (cable short circuit / open circuit)

Reference documentation:

S.E.I.N. description; doc. n° M010228 Rev. 1 (11/04/2001)

S.E.I.N. doc. n° 205/04/0MM (14/05/2004)

Test Reports:

TesLab Environmental Report doc. n° 03C207A (14/01/2004)

EMC Report; EMC doc. n° 1105/2003 (03/05/2004)

S.E.I.N. Report n° R030415A (2003)

Genova, July 28, 2016

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