



## Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>NORIS Automation GmbH</b>
<b>Address</b>	Muggenhofer Strasse 95, Nuernberg, 90429, Germany
<b>Type</b>	Control Units
<b>Description</b>	Safety System and Booster module for Internal Combustion Machinery  Type N3000-SAP-x (x = type designation code) SA677-(1)(2)G (1) = current limit: 0, 1, 2, 3 (6-15A) (2) = auxiliary relay output function: 1, 2, 3, 4
<b>Trade Name</b>	N3000-SAP and SA677
<b>Application</b>	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2, ENV3, and ENV4 for power distribution zone as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 2002.
<b>Specified Standard</b>	Manufacturers Specification IACS unified requirements E10 (Rev.8 Feb 2021)
<b>Ratings</b>	Power supply: 24 V DC
<b>Additional Tests</b>	Low Temperature Test (-25°C/16h)

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**Other Conditions** Final arrangement of the system is to undergo plan appraisal and to be checked for compliance with applicable Lloyd's Register Rules and Regulations.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

**Previous Version:** 09/20003 (E3)

The Design Appraisal Document HPC1862145-24/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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