



## *Confirmation of Product Type Approval*

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 05-JUN-2024. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

**Product Name:** Window Wiper

**Model Name(s):** Pantograph/pendulum wipers Type SDCS

**Presented to:**

SPEICH S.R.L.  
VIA G. ADAMOLI, 443  
16141  
Italy

**Intended Service:**

Pantograph/pendulum wipers for Marine Applications.

**Description:**

The SDCS windscreen wiper system consists of two main components: motor unit and wiper arm equipped with wiping blade. The motor unit SDCS consists of a direct current electric motor with permanent magnets equipped with an electronic speed regulator which allows a fast and accurate self-parking side setup, a precise speed control and, through a CAN Bus connection with the control system, the synchronization of wiper arms rotation between more motors. The arm is made of AISI 316 stainless steel, highly resistant to corrosion. A spring with adjustable preload connects the arm tube to the base and keeps the wiping blade properly adherent to the glass.

**Tier:**

3

**Ratings:**

Rated Voltage: 110-220Vac 24Vdc Rated Power: 85 W (starting 420 W) Degree of Protection: IP68 Ambient Temperature Rating: - 30 °C to + 45 °C

**Service Restrictions:**

1) Unit Certification is not required for this product. 2) If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. 3) Wipers are not suitable for hazardous area installations as defined in 4-8-3/13 of the Marine Vessels Rules. 4) The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.

<b>Comments:</b>	The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
<b>Notes / Documentation:</b>	Installation and Maintenance Manual SDCS Version 2018 Type Tests CByC Reference Table with 33 items dated 2019 Drawing No. INS.SDCS for items 20-21-23 Motor Installation Revision 0 dated 12-12-11 Drawing No. Motore SDCS2 Wiper Motor SDCS2 110-220Vac Features Overview for item 22 Revision 2 dated 22-01-18 Drawing No. SP91P Pantograph Wiper Arm for item 24 Revision 0 dated 13-03-15 Drawing No. T09P Pantograph Wiper Arm for item 24 Revision 0 dated 13-03-15 Drawing No. SP91PHE Pantograph Wiper Arm for item 26 Revision 0 dated 10-05-13 Bundeswehr Technical Centre Test Certification No.WTD71-330-130 for items 10 and 28 Salt Spray dated 18.02.2013 TesLab Test Report No.177211F for items 1, 5, 7, 8, 9, 11, 12, 14, 15, 16 and 17 dated 2017-09-20 Biamino & Figli Spa Test Report No.0163 for item 18 Test Conducted Emissions dated 03/06/2015 SPEICH Test Report No.TR-190509-01 Durability and salt water for items 27 and 30 dated 09/05/2019 SPEICH Test Report No.TR-190314-00 Temperature for item 29 dated 09/05/2019 SPEICH Test Report No.TR190307-02 Dry heat for item 3 dated 07/03/2019 BUNDESAMT FUR SEESCHIFFFAHRT UND HYDROGRAPHIE Test Report No.618 Compass Safe Distance for item 33 dated 02 September 2009 SPEICH Test Report No.TR190307-02 Bis Dry heat for item 3A dated 09/05/2019 EMC S.r.l. Test Report No.0407/2019 EMC for items 4, 13, 17 and 18 dated April 29, 2019 SPEICH Test Report No.TR190307-03 Inclination for item 6 dated 07/03/2019
<b>Term of Validity:</b>	This Product Design Assessment (PDA) Certificate 19-GE1846480-PDA, dated 06/Jun/2019 remains valid until 05/Jun/2024 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.
<b>ABS Rules:</b>	2019 Rules for Conditions of Classification, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: 2019 Steel Vessels Rules 4-9-8/13 2019 Marine Vessels Rules 4-9-9/13 2019 Offshore Support Vessels Rules, 4-9-8/13 2019 Steel Vessels Under 90 Meters (295 Feet) in Length Rules, 4-7-2/15
<b>National Standards:</b>	
<b>International Standards:</b>	IEC 60945 Fourth edition 2002-08 ISO 17899 First edition 2004-07-15
<b>Government Authority:</b>	
<b>EUMED:</b>	
<b>Others:</b>	

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	19-GE1846480-PDA	07-JUN-2019	05-JUN-2024



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.