



Foxboro™ DCS

Standard and Compact 200 Series FBMs, Controllers, and Supporting Equipment — Marine Certifications

Product Specification

PSS 41H-2MARCERT, Rev A

December 2025



Legal Information

The information provided in this document contains general descriptions, technical characteristics and/or recommendations related to products/solutions.

This document is not intended as a substitute for a detailed study or operational and site-specific development or schematic plan. It is not to be used for determining suitability or reliability of the products/solutions for specific user applications. It is the duty of any such user to perform or have any professional expert of its choice (integrator, specifier or the like) perform the appropriate and comprehensive risk analysis, evaluation and testing of the products/solutions with respect to the relevant specific application or use thereof.

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Overview

The Foxboro DCS is designed to operate in harsh environmental conditions as part of its basic design. Installation on ships and on Floating Production Storage and Offloading vessels, however, provides additional challenges to withstand different electromagnetic and mechanical energy spectra imposed on the DCS equipment. The DCS equipment described in this PSS has been tested and certified by independent and internationally recognized agencies to be operable in these environments.

Features

The Foxboro DCS is organized into equipment that is intended to be field mounted in extreme environments, to be mounted in rack or instrumentation spaces with better environmental controls, and in control rooms in a shirtsleeves environment.

As listed below, applicable equipment has been Marine Certified for Environmental Category EC21B by Bureau Veritas (BV) and received Type Approval from the American Bureau of Shipping (ABS) and Det Norske Veritas (DNV). This combination of certifications provides for system operation across the vessel.

The remainder of this PSS lists the equipment and associated certifications.

Marine Certified Equipment of the Foxboro DCS

For a list of all marine certified equipment of the Foxboro DCS, see Appendix A:
Certificates, page 6.

Certifying Organization	Standard
Bureau Veritas (BV)	467-NR_PartC_2024_1; Rules for the Classification of Steel Ships — Part C, Chapter 3
Det Norske Veritas (DNV)	Type Certified: DNV-CG-0339 Environmental test specification for electrical, electronic, and programmable equipment and systems — Edition August 2021
American Bureau of Shipping (ABS)	Type Certified: Rules for Conditions of Classification, Part 1 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4

Installing Foxboro DCS in Marine Environments

To maintain compliance for the Classification of Steel Ships, the Foxboro DCS must be installed according to the following:

- Bureau Veritas approval is valid for ships intended to be granted with the following additional class notations: AUT-UMS, AUT-CCS, AUT-PORT, and AUT-IMS.
- Bureau Veritas Environmental Category, EC Code is: EC21B.
- The equipment is to be installed in enclosure model G12A for the Standard 200 Series I/O or model G148 for the Compact 200 Series I/O (EMI shielded metallic enclosure with roof-mounted fan) or equivalent and connected with an AC Filter CORCOM 20VVK6 or equivalent on the field power lines. AC Filter CORCOM 20VP6 or equivalent is to be mandatorily used for some components.
- The equipment fulfills the EMC requirements for installation in General Power Distribution Zone.
- Each application and configuration is to be submitted to the Society's examination prior to fitting on board.
- The equipment, once installed on board ship, is to be tested in accordance with the above referred Regulations under the supervision of a Society's Surveyor.
- Only hardware and software successfully tested together in compliance with the regulations as referred to in this document, according to the declaration of the manufacturer are covered by this certificate. (Refer to the original *Bureau Veritas Type Approval Certificate for the type of product Programmable Logic Control Units I/A Series* for complete information.)
- Correct configuration and setup for each delivery to be tested during commissioning after installation.
- The title and version of each software element included in the installed software system shall be either marked or presented on a display of the equipment.
- Correct configuration and setup for each delivery must be tested during commissioning after installation.
- Factory acceptance and on-board tests must be performed in accordance with requirements for Category II Equipment.

Modifications Required for Marine Certification

- FBMs utilizing HART communication must use shielded cabling on their associated Termination Assembly I/Os with the shield appropriately terminated.
- All Cat5e cabling connected to the system must be of the shielded type and additionally must be clamped with a 75 series ferrite bead (recommended part number Fair-Rite 0475164281).
- Ferrite beads placed on FBM baseplates at the primary or secondary power connector must be slid down the cable and tied down close to the cabinet's structural members. This prevents additional vibration stress from damaging the connector.

Appendix A: Certificates

The agency certificates are provided for your reference.

ABS Certificate of Product Design Assessment

Schneider Electric



CERTIFICATE NUMBER	25-0320600-PDA
EFFECTIVE DATE	18-Jul-2025
EXPIRY DATE	17-Jul-2030
ABS TECHNICAL OFFICE	Houston ESD - Electrical

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

SCHNEIDER ELECTRIC SYSTEMS USA, INC.

located at

70 MECHANIC STREET, FOXBORO, MA, United States, 02035

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Distributed Control System
Model: Multiple - 200 Series IA System
Endorsements:
Tier: 5 - Unit Certification Required

This Product Design Assessment (PDA) Certificate remains valid until 17/Jul/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Sohani Haque
Sohani Haque, Sr. Managing Principal Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

Certificate of Product Design Assessment Rev.3
of 1

Page 1

Sensitivity: Internal & Restricted

SCHNEIDER ELECTRIC SYSTEMS USA, INC.

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United States 02035
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Fax: 508-549-4458
Email: jeffrey.goulet@schneider-electric.com
Web: www.schneider-electric-co.za

Tier: 5 - Unit Certification Required

Product: Distributed Control System
Model: Multiple - 200 Series IA System
Endorsements:

Intended Service:
Distribution Control System on board ABS Classed Vessels, Offshore Rigs, Platforms & Marine applications in other MODU's or Facilities.

Description:
Distributed Control System Typically used for Oil platforms and Ship-board

Rating:
1. Operating Voltage: 24VDC & 120/240 VAC
2. Operating Frequency: 50/60 Hz

For details, see the attached components list.

Service Restriction:
1. Unit Certification is required for this product when it is incorporated in a Category II or Category III system as detailed in 4-9-3/7.1 and 4-9-3/Table 1 of the ABS Marine Vessels Rules. Unit Certification may be carried out during Factory Acceptance Test of the overall system.
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. The minimum degree of protection (IP) is to be in accordance with 4-8-3/15 Table 2 of ABS Marine Vessels Rules.
4. Equipment is for marine/offshore applications in non-hazardous areas only.

Comments:
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:
Test Report No.: NY0195-2 dated 20-May-2025, conducted by Bureau Veritas Consumer Product Service Inc., Revision: 3, Pages: 59,
Drawing No.: B0700FZ, Planning and Installation Guide Certified on August 2024 or Later, Revision: F, Pages: 24,
Drawing No.: OCPPA-SysTP-7955, Equipment list, Revision: 0.4, Pages: 4
Drawing No.: OCPPA-SysTP-7955, Equipment list, Revision: 1.1, Pages: 77

Terms of Validity:
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United States 02035
Telephone: 508-549-2256
Fax: 508-549-4458
Email: jeffrey.goulet@schneider-electric.com
Web: www.schneider-electric-co.za

Tier: 5 - Unit Certification Required

STANDARDS

ABS Rules:

2025 Rules for Conditions of Classification, Part 1A, 1A-1-4/7.7, 1A-1-A3, and 1A-1-A4, which cover the following:
2025 Marine Vessel Rules: 4-8-3/1.7, 4-8-3/1.17, 4-9-3, and 4-9-9/15 Table 1.

2025 Rules for Conditions of Classification, Part 1A - Offshore Units and Structures 1A-1-4/9.7, 1A-1-A2, 1A-1-A3, which cover the following:

2025 Mobile Offshore Units Rules: 4-3-1/11, 4-3-1/17

National:

N/A

International:

IACS UR E10 (Rev. 9, Aug. 2023)

Government:

N/A

EUMED:

N/A

OTHERS:

N/A



CERTIFICATE NUMBER 25-0320600-PDA-DUP
EFFECTIVE DATE 18-Jul-2025
EXPIRY DATE 17-Jul-2030
ABS TECHNICAL OFFICE Houston ESD - Electrical

CERTIFICATE OF
Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

ELECTRONICA REYNOSA, S. DE R.L. DE C.V.

located at

AV. INDUSTRIAL DE NORTE, ESQUINA CON AV. FOMENTO,
INDUSTRIAL, INTERIOR 300, COL. PARQUE INDUSTRIAL DEL
NORTE, REYNOSA, TAMAULIPAS, Mexico, 88736

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American Bureau Of Shipping

Soheni Haque

Soheni Haque, Sr. Managing Principal Engineer

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Certificate of Product Design Assessment Rev.3
of 1

Page 1

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ELECTRONICA REYNOSA, S. DE R.L. DE C.V.
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INDUSTRIAL, INTERIOR 300
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Email: pasupport@schneider-electric.com
Web: www.schneider-electric.com

Tier: 5 - Unit Certification Required

Product: Distributed Control System
Model: Multiple - 200 Series IA System
Endorsements:

Intended Service:
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Telephone: 1 866 746 6477
Fax: 956-205-4833
Email: pasupport@schneider-electric.com
Web: www.schneider-electric.com

Tier: 5 - Unit Certification Required

Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

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2025 Rules for Conditions of Classification, Part 1A - Offshore Units and Structures 1A-1-4/9.7, 1A-1-A2, 1A-1-A3,
which cover the following:

2025 Mobile Offshore Units Rules: 4-3-1/11, 4-3-1/17

National:

N/A

International:

IACS UR E10 (Rev. 9, Aug. 2023)

Government:

N/A

EUMED:

N/A

OTHERS:

N/A

Shanghai



CERTIFICATE NUMBER	25-0320600-PDA-DUP
EFFECTIVE DATE	18-Jul-2025
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ABS TECHNICAL OFFICE	Houston ESD - Electrical

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SHANGHAI FOXBORO CO. LTD.

located at

669 SUIDE ROAD, PUTUO DISTRICT, SHANGHAI SHI, China,
200331

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of 1

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Sensitivity: Internal & Restricted

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Web: www.schneider-electric.cn

Tier: 5 - Unit Certification Required

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SHANGHAI FOXBORO CO. LTD.
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China 200331
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Fax:
Email: Qing.Cao.cn@se.com
Web: www.schneider-electric.cn

Tier: 5 - Unit Certification Required

STANDARDS

ABS Rules:

2025 Rules for Conditions of Classification, Part 1A, 1A-1-4/7.7, 1A-1-A3, and 1A-1-A4, which cover the following:
2025 Marine Vessel Rules: 4-8-3/1.7, 4-8-3/1.17, 4-9-3, and 4-9-9/15 Table 1.

2025 Rules for Conditions of Classification, Part 1A - Offshore Units and Structures 1A-1-4/9.7, 1A-1-A2, 1A-1-A3,
which cover the following:

2025 Mobile Offshore Units Rules: 4-3-1/11, 4-3-1/17

National:

N/A

International:

IACS UR E10 (Rev. 9, Aug. 2023)

Government:

N/A

EUMED:

N/A

OTHERS:

N/A

Bureau Veritas Type Approval Certificate



Certificate number: 78305/A0 BV
File number: MPA24022327
Product code: 4501H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Schneider Electric Systems USA, Inc.
Foxborough, MA - UNITED STATES OF AMERICA

for the type of product

PROGRAMMABLE LOGIC CONTROL UNITS
Distributed Control System
Standard & Compact 200 Series

Requirements:
Bureau Veritas Rules for the Classification of Steel Ships
EC Code: 21B

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 26 Nov 2030

For Bureau Veritas Marine & Offshore,
At BV PORT EVERGLADES CENTRE, on 26 Nov 2025,
Flavio Rosas

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <https://www.veristarpm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=z2hhb2ftaq>
BV Mod. Ad.E 530 June 2017 This certificate consists of 7 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Standard & Compact 200 Series: Distributed Control System or DCS is a computerized system that automates industrial equipment used in continuous and batch processes, while reducing the risk to people and the environment

Part/Drawing #	Description	Revision
G12A/10126ZZ (*)	G12A Enclosure	H
G148/10139FM (*)	G148 Enclosure	F
RH924YA	FCP280 Control Processor	L
RH101FQ	FDC280 Field Device Controller	H
RH924YF	FCP280 Vertical Baseplate	H
P0922YC	Power Supply, FPS 400-24/24	H
P0922YU	Power Supply, FPS 400-24	P
RH101CR	Compact FPS480-24 Power Supply, AC/DC Input	A
RH926DZ	Power Connection Kit For FPS 400-24	A
RH101BY	DC Power Distribution Assembly	A
P0927BL	Power Distribution Terminal Blocks	D
RH101KF	FDC280 Baseplate	G
RH914YZ	FCM2F 2KM Fiber Optic Fieldbus Extender	B
RH926JM	8 Slots Vert. Baseplate, Time Strobe, 8 FBM	B
RH101AA	Compact 200 Series 16-Slot Horizontal Baseplate	D
RH924WA	FCP280 Fiber Optic Network Adapter	E
RH924UQ	FCP280 Copper Network Adapter	D
RH926KW	Fieldbus Baseplate Terminator/Splitter	B
RH916RB	Fieldbus Baseplate Terminator	B
RH926EQ	FBM202 Channel Isolated 8 Input Thermocouple/mV	C
RH927AM	FBM203d Channel Isolated 8 Input RTD	C
RH917GY	FBM207c Ch Isolated 16 DIN 48 Vdc Contact Sense	C
RH914TR	FBM217, Discrete Inputs, 32 Channels	B
RH916RH	FBM219, Discrete I/O, 32 Channels, 24 DIN+8 DOUT	C
RH914TG	FBM241 Ch Isolated Vmon DI + External Source DO	C
RH914WP	FBM241d Ch Isolated CSense DI + Internal Source DO	C
RH927AL	FBM245, Redundant Ready HART 4 Input + 4 Output Channels	B
RH927BN	FBM247, Crnt/Vlt, Anlg/Dig/Plse+HART Config.	E
RH100KG	FBM248 Crnt/Vlt, Anlg/Dig/Plse+HART Redundant	G
RH101DB	Compact FBM202 Channel Isolated 8 Input Thermo./mV	C
RH101GB	Compact FBM203d Channel Isolated 8 Input RTD	C
RH101GD	Compact FBM207c Ch Isolated 16 DIN 48Vdc Contact Sense	C
RH101AB	Compact FBM214b, HART Inputs, 8 Channels	C
RH101RP	Compact FBM214e, HART Inputs, 16 Channels	B
RH101DF	Compact FBM217, Discrete Inputs, 32 Channels	C
RH101AE	Compact FBM218 (HART Output Module FBM218)	C
RH101GG	Compact FBM219, Discrete I/O, 32Channels, 24DIN+8 DOUT	C
RH101DH	Compact FBM241 Ch Isolated Vmon DI+External Source DO	C
RH101GL	Compact FBM 241d, Ch Isolated Csense DI + Internal Source DO	C
RH101EY	Compact FBM247 Crnt/Vlt, Anlg/Dig/Plse+HART	D
RH101LJ	Compact FBM248 Crnt/Vlt, Anlg./Dig/Plse+HART Redund	A
RH926ZY	Redundancy Adapter For FBM207/217	B
RH924DU	Redundancy Adapter For FBM245	C
RH101AZ	Compact-FBM207b/FBM217 Redundancy Adapter	B

The electronic version is available at: <https://www.veristarpm.com/veristarbn/jsp/viewPublicPdfTypeec.jsp?id=z2hbh2ftaq>

BV Mod. Ad.E 530 June 2017

This certificate consists of 7 page(s)

RH101AY	Compact-FBM218/FBM237 Redundancy Adapter	B
RH101LN	Redundancy Adapter for Compact FBM248	B
RH916XH	Compression Term Assembly, Poly Amide, FBM202	A
RH924EX	FBM203d T/A	A
P0917MJ	Ring Lug Term Assy, FBM207c, Non-PVC	B
RH917MG	Comp TA FBM207c 48 Vdc Contact Sense, PolyAmide	A
RH924JH	FBM214b/216b Compression Term Assembly, Poly Amide	A
RH101RY	FBM214e Compression Ter Assembly Int Powered	D
RH926SP	FBM215/218 Compression Term Assembly, PolyAmide	A
RH916QA	Compression Term Assy, FBM217, 240 Vac Switch DI	A
P0916PT	Ring Lug Term Assy, FBM217, 120/125V Vmon	A
RH917LE	Comp TA FBM219 60V Vmon In + 0.25A Fused 60V Out	A
RH917LH	Comp TA FBM219 24 Vdc CSense+0.25A Fused 60V Out	A
RH917LS	Comp TA FBM219 125V Switch DI + 5A Relay Out	A
RH924HF	FBM 219/239 TA. 8 dc Input:Cont./VM; 8 dc Outputs	A
RH924HH	FBM 219/239 TA. 8 ac In:VM@120Vac; 8 out Switches	A
RH924HK	FBM 219/239 TA. 8 ac In:VM@240Vac; 8 out Switches	A
RH924HP	FBM 217/219 TA. 16 dc Input:Contact sense @ 48Vdc	A
RH924HY	FBM 219/239 TA. 8 dc In:CS@125Vdc; 8 out Switches	A
RH924JB	FBM 219/239 TA. 8 HP Cont/VM@60Vdc; 8 out Switches	A
RH916AQ	Comp TA FBM241 60V Vmon In + 2A 60 V Fused Out	A
RH916AR	Ring Lug TA FBM241 60V Vmon In + 2A 60V Fused Out	A
RH916QJ	Compression Ta, FBM241, 240V Vmon + 5A Relay Out	A
RH916QL	Comp TA, FBM241, 240V Vmon + Fused Relay Out	A
RH916QT	Comp TA, FBM241, 125V Switch DI + 5A Relay Out	A
RH917MX	Comp TA FBM241,8DI 120/125+8DO 120/125 SS	A
RH916YW	Comp TA, FBM241d, PlyA, CSense In + Int Source DO	A
RH924QU	FBM244/245 T/A	A
RH924HX	FBM 219/239 TA. 8 dc In:VM@125Vdc; 8 out Switches	A
RH924WG	FBM247 T/A baseplate mount, 16 compress term.	A
RH924WW	FBM247 T/A, 8 compression term.	A
RH101KA	Compact FBM247 T/A baseplate mount, spring cage	D
RH100KR	FBM248 T/A baseplate mount, 16 compress term	C
RH926GH	FBM224 / FBM230 / FBM231 Compression PolyAmide TA	A
RH101CS	Fan Tray Assembly, 120 Vac	A
P0915VN	Pagoda Fan 240V	G
RH916AQ	Comp TA FBM241 60V Vmon In+2A 60V Fused Out	A
P0915VM	Pagoda Fan, 120V	G
RH916YA	Comp Ter Assy, FBM217, Polyamide, 120/125Vmon	A
RH924YL	FCP280 Horizontal Baseplate	H
RH914SV	FBM203 Channel Isolated 8 Input RTD	C
RH922UA	FBM203b Channel Isolated 8 Input Extended RTD Range	C
RH922UD	FBM203c Channel Isolated 8 Input 10 ohm RTD Range	D
RH914TD	FBM207 Channel Isolated 16 DIN Voltage Monitor	C
RH914WH	FBM207b Ch Isolated 16 DIN 24 Vdc Contact Sense	D
RH927AH	FBM214b, HART Inputs, 8 Channels	C
RH922VU	FBM215, HART Output, 8 Channels	C
RH927AJ	FBM216b, Redundant Ready HART Inputs, 8 Channels	B
RH922VW	FBM218, Redundant Ready HART Output, 8 Channels	B
RH927AF	FBM238, Discrete I/O 32 Channels, 8 In-8 Out-8 In-8 In	B
RH927AG	FBM239, Discrete I/O 32 Channels, 8 In-8 Out-8 In-8 Out	C
RH914WK	FBM241b Ch Isolated Vmon DI + Internal Source DO	C
RH914WM	FBM241c Ch Isolated CSense DI + External Source DO	C

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RH916TA	FBM242 Channel Isolated External Source DO	C
RH927AK	FBM244, HART 4 Input + 4 Output Channels	C
RH101DC	Compact FBM203 Channel Isolated 8 Input RTD	C
RH101GA	Compact FBM203c Channel Isolated 8 Input 10 ohm RTD Range	C
RH101GB	Compact FBM203d Channel Isolated 8 Input RTD	C
RH101GC	Compact FBM207 Channel Isolated 16 DIN Voltage Monitor	C
RH101AF	Compact FBM207b (Digital Input Module FBM207b)	C
RH101AC	Compact FBM215, HART Output, 8 Channels	C
RH101AD	Compact FBM216b (HART Input Module FBM216b)	C
RH101GJ	Compact FBM238, Discrete I/O 32 Channels, 8In-8Out-8In-	C
RH101GK	Compact FBM239, Discrete I/O 32 Channels, 8In-8Out-8In-	C
RH101DJ	Compact FBM241c Ch Isol CSenseDI+External SourceDO	C
RH101AG	Compact FBM242 (Digital Output Module FBM242)	C
P0917JL	Ring Lug Term Assy, FBM202, Non-PVC	C
RH928CN	FBM202 pair, T/A baseplate mount, 16 term.	B
RH916XJ	Compression Term Assembly, Poly Amide, FBM203	A
P0917JM	Ring Lug Term Assy, FBM203, Non-PVC	C
RH924WN	FBM203b/c pair TA baseplate mount, 16 term.	A
RH926KZ	Fieldbus & Time Strobe Baseplate Terminator	B
RH924DT	Redundancy Adapter For FBM216b	B
RH916QD	Redundancy Adapter For FBM218/FBM237	C
RH916PH	Compression Term Assembly, FBM207, 240 Vac Vmon	A
RH916PK	Compression Term Assy, FBM207, 120/125V Switch DI	A
RH916PM	Compression Term Assy, FBM207, 240 Vac Switch DI	A
RH916XN	Comp Term Assy FBM207, 15-60 Vdc Vmon PolyAmide	A
RH916XP	Comp Term Assy, Poly Amide FBM207, 120/125 V Vmon	A
P0917JS	Ring Lug Term Assy, FBM207, 120/125V Vmon, Non-PVC	C
P0917JT	Ring Lug Term Assy FBM207 120/125V, PA, Switch DI	D
P0917JU	Ring Lug Term Assy, FBM207, 240 Vac Mon, PolyAmide	C
P0916PP	Ring Lug Term Assy, FBM207b, Contact Sense	C
RH916XT	Comp TA FBM207b, 24Vdc Contact Sense, PolyAmide	A
P0926EK	FBM215/218 Ring Lug Termination Assembly	C
RH916CA	Compression Term Assy, FBM217, 15-30 Vdc Vmon	A
RH916YA	Comp Term Assy, FBM217, Poly Amide, 120/125V Vmon	A
RH916PU	Compression Term Assy, FBM217, 240 Vac Vmon	A
P0916PX	Ring Lug Term Assy, FBM217, 24 Vdc Contact Sense	B
RH916XZ	Comp Term Assy, FBM217, Poly Amide, Contact Sense	A
RH916YB	Comp Term Assy, FBM217, PolyAm, 120/125V Switch DI	A
RH924HA	FBM217/219 TA. 16 dc Input:Contact In/Voltage Mon.	A
RH924HB	FBM217/238 TA. 16 dc Input:Contact In/Voltage Mon.	A
RH924HC	FBM 217/219 TA. 16 ac Input: Voltage Mon. @ 120Vac	A
RH924HD	FBM 217/238 TA. 16 ac Input: Voltage Mon. @ 120Vac	A
RH924HL	FBM 217/219 TA. 16 ac Input: Voltage Mon. @ 240Vac	A
RH924HM	FBM 217/238 TA. 16 ac Input: Voltage Mon. @ 240Vac	A
RH924HN	FBM 217/219 TA. 16 dc Input: Voltage Mon. @ 125Vdc	A
RH924HQ	FBM 217/219 TA. 15 dc Input:Contact sense @ 125Vdc	A
RH924HR	FBM 217/238 TA. 16 dc Input: Voltage Mon. @ 125Vdc	A
RH924HS	FBM 217/238 TA. 16 dc Input:Contact sense @ 48Vdc	A
RH924HT	FBM 217/238 TA. 15 dc Input:Contact sense @ 125Vdc	A
RH917LL	Comp TA FBM219 125V Vmon + 5A Relay Out	A
RH917LP	Comp TA FBM219 125V Vmon + Relay Out w/Pwr Dist	A
RH917LV	Comp TA FBM219 125V Switch DI+Relay Out w/Pwr Dis	A
RH924HE	FBM 238/239 TA. 8 dc Input:Cont./VM; 8 dc Outputs	A

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RH924HG	FBM 238/239 TA. 8 ac In:VM@120Vac; 8 out Switches	A
RH924HJ	FBM 238/239 TA. 8 ac In:VM@240Vac; 8 out Switches	A
RH924HU	FBM 238/239 TA. 8 dc In:VM@125Vdc; 8 out Switches	A
RH924HV	FBM 238/239 TA. 8 dc In:CS@125Vdc; 8 out Switches	A
RH924HW	FBM 238/239 TA. 7 dc In:CS@125Vdc; 8 out Switches	A
RH924HZ	FBM 219/239 TA. 7 dc In:CS@125Vdc; 8 out Switches	A
RH924JA	FBM 238/239 TA. 8 HP Cont/VM@60Vdc; 8 out Switches	A
RH924VD	FBM238 TA. 24 dc In: Voltage Monitor.; Out: 8 DO	A
RH924VG	FBM 238 TA. 24 dc In: Contact Sense; Out: 8 DO	A
RH924VJ	FBM 239 TA. 16 dc In: Voltage Monitor; Out:16 DO	A
RH924VM	FBM239 TA. 16 dc In: 16 Contact Sense; Out:16 DO	A
P0916AT	Ring Lug TA FBM241 125V Vmon + 5A Relay Out	B
P0916NZ	RingLug TA FBM241 240V Switch DI+RelayOut w/P Dist	A
RH916QE	Compression TA, FBM241, 60V Vmon + 5A Relay Out	A
P0916QF	Ring Lug TA FBM241 60V Vmon + 5A Relay Out	A
RH916QG	Comp TA, FBM241, 125V Vmon + Fused Relay Out	A
P0916QH	Ring Lug TA FBM241 125V Vmon+Relay Out w/Pwr Dist	A
P0916QM	Ring Lug TA FBM241 240V Vmon+Relay Out w/Pwr Dist	A
P0916QU	Ring Lug TA FBM241 125V Switch DI + 5A Relay Out	B
RH916QV	Comp TA, FBM241, 125V Switch + Fused Relay Out	A
RH916QX	Comp TA, FBM241, 240V Switch DI + 5A Relay Out	A
P0916QY	Ring Lug TA FBM241 240V Switch DI + 5A Relay Out	A
RH916QZ	Comp TA, FBM241, 240V Switch DI + Fused Relay Out	A
RH916UY	Comp TA FBM241 60V Vmon In+2A 60V Non Fused Out	A
RH916YH	Comp TA FBM241 125V Vmon + 5A Relay Out PolyAmide	A
RH926DS	Comp TA FBM241, 8DI+8DO 120/125/30V Relay	A
RH916JV	Compression TA FBM241b 60V Vmon In + Int Source DO	A
P0916QN	Ring Lug TA FBM241b 60V Vmon In + Int Src DO	A
RH916AW	Compression TA FBM241c CSense In + 5A Relay Out	A
RH916JW	Comp TA FBM241c CSense In + 2A 60V Fused Out	A
P0916QP	Ring Lug TA FBM241c CSense In + 2A 60V Fused Out	A
RH916QQ	Comp TA, FBM241c, CSense In + Fused Relay Out	A
P0916QR	Ring Lug TA FBM241c CSense In+Relay Out w/Pwr Dist	A
RH916UID	Comp TA FBM241c CSense In+2A 60V Non Fused Out	A
P0917KY	Ring Lug TA FBM241c, PlyA,CSense In + 5A Relay Out	C
P0917LA	Ring Lug TA FBM241d, PlyA, CSense In + Int Src DO	C
RH916JY	Comp Term Assy, FBM242, 2A 60V Fused Out	A
P0916RJ	Ring Lug Term Assy FBM242, 2A 60V Fused Out	A
P0916RK	Ring Lug Term Assy FBM242, 5A Relay Out	A
P0916RL	Ring Lug Term Assy FBM242, Relay Out w/Pwr Dist	A
RH926BE	Comp TA FBM242, 16DO 120Vac/125Vdc SS	A
RH926DV	FBM242 Relay Out, Knife Switch Comp Term Assy	A
RH916YY	Comp Term Assembly, FBM242, PolyAm, 5A Relay Out	A
RH916YZ	Comp TA FBM242 Fused Relay Out, PolyAmide	A
RH917HX	Comp Term Assy, FBM242, 2A 60V Fused Out	A
RH917XX	Comp TA FBM242 2A 60V Non Fused Out	A
RH923LH	Comp TA, FBM242, 2A 60V Fused Out w/Redun. Power	A
RH923LL	Comp Term Assembly, FBM242, 5A Relay Out w/LED	A
RH926HM	4 Slots Hor. Baseplate, Time Strobe, 4FBM	B
RH926HT	8 Slots Hor. Baseplate, Time Strobe, 8FBM	B
RH926JF	4 Slots Vert. Baseplate, Time Strobe, 4 FBM	B
P0973CG	2-Slot Vertical Expansion Baseplate	E

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2. DOCUMENTS AND DRAWINGS :

Schneider Electric Systems USA, Inc.:

- Standard & Compact 200 Series I/O - Marine certifications No. PSS 41H-2MARCERT rev.A dated October 2025
- Equipment Under Test for Marine Certification, No. 23-9014-01 dated 09/26/2025

3. TEST REPORTS :

Bureau Veritas Consumer Products Services, Inc:

- EMC Test Report No. EY0195-1, issue 3 dated October 31, 2025 .
- EMCTest Report No. EY0195-3, Issue n°2 , dated 20-09-2024.
- Environmental Test Report No. NY0195-2, Rev.4 , dated 10/08/2025.
- Environmental Test Report No. NY0195-1,Rev.3 dated 10/15/2025.

4. APPLICATION / LIMITATION :

- 4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.
- 4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.3 - BUREAU VERITAS Environmental Category, **EC Code: 21B.**
- 4.4 - The equipment fulfils the EMC requirements for installation in bridge and deck zone.
- 4.5 - Each application and configuration is to be submitted to the Society's examination prior to fitting on board.
- 4.6 - Ex certification is not covered by this certificate, Applications in hazardous areas are to be approved in each case according to the Rules and Conditions for Safe Use specified in a valid Ex-Certificate issued by a Notified or Recognised Certification Body
- 4.7 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev. 9
- 4.8 - Only hardware part is covered by this certificate
- 4.9 - DCS should always be installed in the type approved cabinet.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The above types are to be supplied by **Schneider Electric Systems USA, Inc.** in compliance with the type described in this certificate.
- 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
- 5.3 - **Schneider Electric Systems USA, Inc.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.
- 5.4 - For information, **Schneider Electric Systems USA, Inc.** has declared to Bureau Veritas the following production site(s):

Electronica Reynosa, S. de R.L. de C.V. Av. Industrial del Norte, S/N, Suite 300 Parque Industrial del Norte Cd. 88736 Reynosa, Tamaulipas MEXICO	ShangHai Foxboro Co., Ltd. No 669, Suide Road, Putuo District, Shanghai 200331, SHANGHAI CHINA
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- 5.5 - The components marked with (*) i.e Enclosures have to be covered by a valid type approval certificate, issued by the Society.

6. MARKING OF PRODUCT :

- 6.1 - Maker's name or trade mark.
- 6.2 - Catalogue Number and Serial Number.
- 6.3 - Equipment type number or model identification under which it was type-tested.
- 6.4 - The title and version of each software element included in the installed software system shall be either marked or presented on a display of the equipment.

7. OTHERS :

It is **Schneider Electric Systems USA, Inc.** 's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***

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DNV Type Approval Certificate



Certificate no.:
TAA00003SR

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Programmable Controller

with type designation(s)
Foxboro DCS Standard & Compact 200 Series

issued to
Schneider Electric Systems USA Inc.
Foxboro, MA, USA

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location classes:

Temperature	A
Humidity	B
Vibration	A
EMC	A
Enclosure	B (IP43)

Issued at **Hamburg** on **2025-11-19**

This Certificate is valid until **2030-11-10**.
DNV local unit: **Certification & Inspection Services**

Approval Engineer: **Jens Dietrich**



for **DNV**
Digitally signed by: **Dariusz Lesniewski**
Location: **DNV SE, Germany**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Form code: TA 251

Revision: 2024-11

www.dnv.com

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Job ID: 262.1-041902-1
 Certificate no.: TAA00003SR

Product description

Controller and I/O and communication components listed below to be mounted in closed cabinet G12A/10126ZZ/ G148/10139FM, (see Application/Limitation):

Part	Description
RH924YA	FCP280 Control Processor
RH101FQ	FDC280 Field Device Controller
RH924YF	FCP280 Vertical Baseplate
P0922YC	Power Supply, FPS 400-24/24
P0922YU	Power Supply, FPS 400-24
RH101CR	Compact FPS480-24 Power Supply, AC/DC Input
RH926DZ	Power Connection Kit For FPS 400-24
RH101BY	DC Power Distribution Assembly
P0927BL	Power Distribution Terminal Blocks
RH100EB	Cable, 2.1m, 24VDC, 18AWG, DC Distribution to BP
RH101KF	FDC280 Baseplate
RH914YZ	FCM2F 2KM Fiber Optic Fieldbus Extender
RH926JM	8 Slots Vert. Baseplate, Time Strobe, 8 FBM
RH101AA	Compact 200 Series 16-Slot Horizontal Baseplate
RH924WA	FCP280 Fiber Optic Network Adapter
RH924UQ	FCP280 Copper Network Adapter
RH926KW	Fieldbus Baseplate Terminator/Splitter
RH916RB	Fieldbus Baseplate Terminator
RH926EQ	FBM202 Channel Isolated 8 Input Thermocouple/mV
RH927AM	FBM203d Channel Isolated 8 Input RTD
RH917GY	FBM207c Ch Isolated 16 DIN 48 Vdc Contact Sense
RH914TR	FBM217, Discrete Inputs, 32 Channels
RH916RH	FBM219, Discrete I/O, 32 Channels, 24 DIN+8 DOUT
RH914TG	FBM241 Ch Isolated Vmon DI + External Source DO
RH914WP	FBM241d Ch Isolated CSense DI + Internal Source DO
RH927AL	FBM245, Redundant Ready HART 4 Input + 4 Output Channels
RH927BN	FBM247, Crnt/Vlt, Anlg/Dig/Plse+HART Config.
RH100KG	FBM248 Crnt/Vlt, Anlg/Dig/Plse+HART Redundant
RH101DB	Compact FBM202 Channel Isolated 8 Input Thermo./mV
RH101GB	Compact FBM203d Channel Isolated 8 Input RTD
RH101GD	Compact FBM207c Ch Isolated 16 DIN 48Vdc Contact Sense
RH101AB	Compact FBM214b, HART Inputs, 8 Channels
RH101RP	Compact FBM214e, HART Inputs, 16 Channels
RH101DF	Compact FBM217, Discrete Inputs, 32 Channels
RH101AE	Compact FBM218 (HART Output Module FBM218)
RH101GG	Compact FBM219, Discrete I/O, 32Channels, 24DIN+8 DOUT
RH101DH	Compact FBM241 Ch Isolated Vmon DI+External Source DO
RH101GL	Compact FBM 241d, Ch Isolated Csense DI + Internal Source DO
RH101EY	Compact FBM247 Crnt/Vlt, Anlg/Dig/Plse+HART
RH101LJ	Compact FBM248 Crnt/Vlt, Anlg/Dig/Plse+HART Redund
RH926ZY	Redundancy Adapter For FBM207/217
RH924DU	Redundancy Adapter For FBM245
RH101AZ	Compact-FBM207b/FBM217 Redundancy Adapter
RH101AY	Compact-FBM218/FBM237 Redundancy Adapter
RH101LN	Redundancy Adapter for Compact FBM248
RH916XH	Compression Term Assembly, Poly Amide, FBM202
RH924EX	FBM203d T/A
P0917MJ	Ring Lug Term Assy, FBM207c, Non-PVC
RH917MG	Comp TA FBM207c 48 Vdc Contact Sense, PolyAmide
RH924JH	FBM214b/216b Compression Term Assembly, Poly Amide
RH101RY	FBM214e Compression Ter Assembly Int Powered
RH926SP	FBM215/218 Compression Term Assembly, PolyAmide
RH916QA	Compression Term Assy, FBM217, 240 Vac Switch DI
P0916PT	Ring Lug Term Assy, FBM217, 120/125V Vmon
RH917LE	Comp TA FBM219 60V Vmon In + 0.25A Fused 60V Out
RH917LH	Comp TA FBM219 24 Vdc CSense+0.25A Fused 60V Out



Job ID: 262.1-041902-1
Certificate no.: TAA00003SR

RH917LS	Comp TA FBM219 125V Switch DI + 5A Relay Out
RH924HF	FBM 219/239 TA. 8 dc Input:Cont./VM; 8 dc Outputs
RH924HH	FBM 219/239 TA. 8 ac In:VM@120Vac; 8 out Switches
RH924HK	FBM 219/239 TA. 8 ac In:VM@240Vac; 8 out Switches
RH924HP	FBM 217/219 TA. 16 dc Input:Contact sense @ 48Vdc
RH924HY	FBM 219/239 TA. 8 dc In:CS@125Vdc; 8 out Switches
RH924JB	FBM 219/239 TA. 8 HP Cont/VM@60Vdc; 8 out Switches
RH916AQ	Comp TA FBM241 60V Vmon In + 2A 60 V Fused Out
RH916AR	Ring Lug TA FBM241 60V Vmon In + 2A 60V Fused Out
RH916QJ	Compression Ta, FBM241, 240V Vmon + 5A Relay Out
RH916QL	Comp TA, FBM241, 240V Vmon + Fused Relay Out
RH916QT	Comp TA, FBM241, 125V Switch DI + 5A Relay Out
RH917MX	Comp TA FBM241, 8DI 120/125+8DO 120/125 SS
RH916YW	Comp TA, FBM241d, PlyA, CSense In + Int Source DO
RH924QU	FBM244/245 T/A
RH924HX	FBM 219/239 TA. 8 dc In:VM@125Vdc; 8 out Switches
RH924WG	FBM247 T/A baseplate mount, 16 compress term.
RH924WW	FBM247 T/A, 8 compression term.
RH101KA	Compact FBM247 T/A baseplate mount, spring cage
RH100KR	FBM248 T/A baseplate mount, 16 compress term
RH926GH	FBM224 / FBM230 / FBM231 Compression PolyAmide TA
TBUM297218	RS-232 Cable, RJ45 to DE9P, 1ft.(0.3m)
RH101CS	Fan Tray Assembly, 120 Vac
P0915VN	Pagoda Fan 240V
RH916AQ	Comp TA FBM241 60V Vmon In+2A 60V Fused Out
P0915VM	Pagoda Fan, 120V
RH916VA	Comp Ter Assy, FBM217, Polyamide, 120/125Vmon
RH924YL	FCP280 Horizontal Baseplate
RH914SV	FBM203 Channel Isolated 8 Input RTD
RH922UA	FBM203b Channel Isolated 8 Input Extended RTD Range
RH922UD	FBM203c Channel Isolated 8 Input 10 ohm RTD Range
RH914TD	FBM207 Channel Isolated 16 DIN Voltage Monitor
RH914WH	FBM207b Ch Isolated 16 DIN 24 Vdc Contact Sense
RH927AH	FBM214b, HART Inputs, 8 Channels
RH922VU	FBM215, HART Output, 8 Channels
RH927AJ	FBM216b, Redundant Ready HART Inputs, 8 Channels
RH922VW	FBM218, Redundant Ready HART Output, 8 Channels
RH927AF	FBM238, Discrete I/O 32 Channels, 8 In-8 Out-8 In-8 In
RH927AG	FBM239, Discrete I/O 32 Channels, 8 In-8 Out-8 In-8 Out
RH914WK	FBM241b Ch Isolated Vmon DI + Internal Source DO
RH914WM	FBM241c Ch Isolated CSense DI + External Source DO
RH916TA	FBM242 Channel Isolated External Source DO
RH927AK	FBM244, HART 4 Input + 4 Output Channels
RH101DC	Compact FBM203 Channel Isolated 8 Input RTD
RH101GA	Compact FBM203c Channel Isolated 8 Input 10 ohm RTD Range
RH101GB	Compact FBM203d Channel Isolated 8 Input RTD
RH101GC	Compact FBM207 Channel Isolated 16 DIN Voltage Monitor
RH101AF	Compact FBM207b (Digital Input Module FBM207b)
RH101AC	Compact FBM215, HART Output, 8 Channels
RH101AD	Compact FBM216b (HART Input Module FBM216b)
RH101GJ	Compact FBM238, Discrete I/O 32Channels, 8In-8Out-8In-
RH101GK	Compact FBM239, Discrete I/O 32Channels, 8In-8Out-8In-
RH101DJ	Compact FBM241c Ch Isol CSenseDI+External SourceDO
RH101AG	Compact FBM242 (Digital Output Module FBM242)
P0917JL	Ring Lug Term Assy, FBM202, Non-PVC
RH928CN	FBM202 pair, T/A baseplate mount, 16 term.
RH916XJ	Compression Term Assembly, Poly Amide, FBM203
P0917JM	Ring Lug Term Assy, FBM203, Non-PVC
RH924WN	FBM203b/c pair TA baseplate mount, 16 term.
RH926KZ	Fieldbus & Time Strobe Baseplate Terminator
RH924DT	Redundancy Adapter For FBM216b
RH916QD	Redundancy Adapter For FBM218/FBM237



Job ID: 262.1-041902-1
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RH916PH	Compression Term Assembly, FBM207, 240 Vac Vmon
RH916PK	Compression Term Assy, FBM207, 120/125V Switch DI
RH916PM	Compression Term Assy, FBM207, 240 Vac Switch DI
RH916XN	Comp Term Assy FBM207, 15-60 Vdc Vmon PolyAmide
RH916XP	Comp Term Assy, Poly Amide FBM207, 120/125 V Vmon
P0917JS	Ring Lug Term Assy, FBM207, 120/125V Vmon, Non-PVC
P0917JT	Ring Lug Term Assy FBM207 120/125V, PA, Switch DI
P0917JU	Ring Lug Term Assy, FBM207, 240 Vac Mon, PolyAmide
P0916PP	Ring Lug Term Assy, FBM207b, Contact Sense
RH916XT	Comp TA FBM207b, 24Vdc Contact Sense, PolyAmide
P0926EK	FBM215/218 Ring Lug Termination Assembly
RH916CA	Compression Term Assy, FBM217, 15-30 Vdc Vmon
RH916YA	Comp Term Assy, FBM217, Poly Amide, 120/125V Vmon
RH916PU	Compression Term Assy, FBM217, 240 Vac Vmon
P0916PX	Ring Lug Term Assy, FBM217, 24 Vdc Contact Sense
RH916XZ	Comp Term Assy, FBM217, Poly Amide, Contact Sense
RH916YB	Comp Term Assy, FBM217, PolyAm, 120/125V Switch DI
RH924HA	FBM217/219 TA, 16 dc Input:Contact In/Voltage Mon.
RH924HB	FBM217/238 TA, 16 dc Input:Contact In/Voltage Mon.
RH924HC	FBM 217/219 TA, 16 ac Input: Voltage Mon. @ 120Vac
RH924HD	FBM 217/238 TA, 16 ac Input: Voltage Mon. @ 120Vac
RH924HL	FBM 217/219 TA, 16 ac Input: Voltage Mon. @ 240Vac
RH924HM	FBM 217/238 TA, 16 ac Input: Voltage Mon. @ 240Vac
RH924HN	FBM 217/219 TA, 16 dc Input: Voltage Mon. @ 125Vdc
RH924HQ	FBM 217/219 TA, 15 dc Input:Contact sense @125Vdc
RH924HR	FBM 217/238 TA, 16 dc Input: Voltage Mon. @ 125Vdc
RH924HS	FBM 217/238 TA, 16 dc Input:Contact sense @ 48Vdc
RH924HT	FBM 217/238 TA, 15 dc Input:Contact sense @125Vdc
RH917LL	Comp TA FBM219 125V Vmon + 5A Relay Out
RH917LP	Comp TA FBM219 125V Vmon + Relay Out w/Pwr Dist
RH917LV	Comp TA FBM219 125V Switch DI+Relay Out w/Pwr Dis
RH924HE	FBM 238/239 TA, 8 dc Input:Cont./VM; 8 dc Outputs
RH924HG	FBM 238/239 TA, 8 ac In:VM@120Vac; 8 out Switches
RH924HJ	FBM 238/239 TA, 8 ac In:VM@240Vac; 8 out Switches
RH924HU	FBM 238/239 TA, 8 dc In:VM@125Vdc; 8 out Switches
RH924HV	FBM 238/239 TA, 8 dc In:CS@125Vdc; 8 out Switches
RH924HW	FBM 238/239 TA, 7 dc In:CS@125Vdc; 8 out Switches
RH924HZ	FBM 219/239 TA, 7 dc In:CS@125Vdc; 8 out Switches
RH924JA	FBM 238/239 TA, 8 HP Cont/VM@60Vdc; 8 out Switches
RH924VD	FBM238 TA, 24 dc In: Voltage Monitor.; Out: 8 DO
RH924VG	FBM 238 TA, 24 dc In: Contact Sense; Out: 8 DO
RH924VJ	FBM 239 TA, 16 dc In: Voltage Monitor; Out:16 DO
RH924VM	FBM239 TA, 16 dc In: 16 Contact Sense; Out:16 DO
P0916AT	Ring Lug TA FBM241 125V Vmon + 5A Relay Out
P0916NZ	RingLug TA FBM241 240V Switch DI+RelayOut w/P Dist
RH916QE	Compression TA, FBM241, 60V Vmon + 5A Relay Out
P0916QF	Ring Lug TA FBM241 60V Vmon + 5A Relay Out
RH916QG	Comp TA, FBM241, 125V Vmon + Fused Relay Out
P0916QH	Ring Lug TA FBM241 125V Vmon+Relay Out w/Pwr Dist
P0916QM	Ring Lug TA FBM241 240V Vmon+Relay Out w/Pwr Dist
P0916QU	Ring Lug TA FBM241 125V Switch DI + 5A Relay Out
RH916QV	Comp TA, FBM241, 125V Switch + Fused Relay Out
RH916QX	Comp TA, FBM241, 240V Switch DI + 5A Relay Out
P0916QY	Ring Lug TA FBM241 240V Switch DI + 5A Relay Out
RH916QZ	Comp TA, FBM241, 240V Switch DI + Fused Relay Out
RH916UY	Comp TA FBM241 60V Vmon In+2A 60V Non Fused Out
RH916YH	Comp TA FBM241 125V Vmon + 5A Relay Out PolyAmide
RH926DS	Comp TA FBM241, 8DI+8DO 120/125/30V Relay
RH916JV	Compression TA FBM241b 60V Vmon In + Int Source DO
P0916QN	Ring Lug TA FBM241b 60V Vmon In + Int Src DO
RH916AW	Compression TA FBM241c CSense In + 5A Relay Out
RH916JW	Comp TA FBM241c CSense In + 2A 60V Fused Out



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P0916QP	Ring Lug TA FBM241c CSense In + 2A 60V Fused Out
RH916QQ	Comp TA, FBM241c, CSense In + Fused Relay Out
P0916QR	Ring Lug TA FBM241c CSense In+Relay Out w/Pwr Dist
RH916UD	Comp TA FBM241c CSense In+2A 60V Non Fused Out
P0917KY	Ring Lug TA FBM241c, PlyA,CSense In + 5A Relay Out
P0917LA	Ring Lug TA FBM241d, PlyA, CSense In + Int Src DO
RH916JY	Comp Term Assy, FBM242, 2A 60V Fused Out
P0916RJ	Ring Lug Term Assy FBM242, 2A 60V Fused Out
P0916RK	Ring Lug Term Assy FBM242, 5A Relay Out
P0916RL	Ring Lug Term Assy FBM242, Relay Out w/Pwr Dist
RH926BE	Comp TA FBM242, 16DO 120Vac/125Vdc SS
RH926DV	FBM242 Relay Out, Knife Switch Comp Term Assy
RH916YY	Comp Term Assembly, FBM242, PolyAm, 5A Relay Out
RH916YZ	Comp TA FBM242 Fused Relay Out, PolyAmide
RH917HX	Comp Term Assy, FBM242, 2A 60V Fused Out
RH917XX	Comp TA FBM242 2A 60V Non Fused Out
RH923LH	Comp TA, FBM242, 2A 60V Fused Out w/Redun. Power
RH923LL	Comp Term Assembly, FBM242, 5A Relay Out w/LED
RH926HM	4 Slots Hor. Baseplate, Time Strobe, 4FBM
RH926HT	8 Slots Hor. Baseplate, Time Strobe, 8FBM
RH926JF	4 Slots Vert. Baseplate, Time Strobe, 4 FBM
P0973CG	2-Slot Vertical Expansion Baseplate

Place of Production

Shanghai Foxboro Co., Ltd.
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Shanghai, PR CHINA

Schneider Electric MX (ECC).
Ave. Industrial del Norte S/N Suite 300CP
88736 Reynosa, MEXICO.

Approval conditions

The Type Approval covers hardware listed under Product description based on Pt.4 Ch.9 Sec.5. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

This certificate does not cover verification of Ex-protection ratings. The suitability needs to be checked during the project related design approval.

Product certificate

If specified in the Rules, the control and monitoring system in which the above listed hardware is used shall be delivered with a product certificate. For each such delivery the certification test is to be performed at the manufacturer of the application system before the system is shipped to the yard. The test shall be done according to an approved test program. After certification the clause for software control will be put into force.

Software control

All changes in software are to be recorded as long as the system is in use on board. Documentation of major changes is to be forwarded to DNV for evaluation and approval before implemented on board. Certification of modified functionality may be required for the particular vessel.

Application/Limitation

- Components listed under product description need to be mounted in a self-contained EMI shielded cabinet enclosure of type Rittal TS 8 series with Rittal TopTherm fan/filter, degree of protection IP43.
- Power supply of the internal components only by power supplies P0922YC, P0922YU and/or RH101CR listed above under product description.
- Installation instructions stipulated in the Marine Specification document PSS 41H-2MARCERT, Rev.A are to be observed.



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Type Approval documentation

Foxboro DCS Standard and Compact 200 Series FBMs, Controllers and Supporting Equipment – Marine Certifications Product Specification, PSS 41H-2MARCERT, Rev.A, October 2025;
EMC Test Report BV EY0195-1, issue 3, 2025-10-31 and BV EY0195-3, issue 2, 2024-09-20; Environmental Test Report BV NY0195-2, Rev.4, 2025-10-08 and BV NY0195-1, Rev.3, 2025-10-15;
Label views: P0903AN-, 1990-08-13; 10131QF, Rev.U; 10131PY, Rev.AC.
Type Approval assessment report issued by DNV Houston, 2024-11-19; Type Approval assessment report issued by DNV Shanghai, 2025-02-25.

Tests carried out

Applicable tests according to DNV CG-0339, 2021.

Marking of product

Cabinet: Front door: Label with "Schneider Electric Foxboro DCS"; Front & Rear side: showing "Schneider Electric Foxboro DCS".

Label affixed inside the top front door: model code, style/rev & serial number based on the configuration (text and barcode).

Components: Stickers on the product showing Schneider Electric Systems USA, Inc. with address, Foxboro, Part number beneath the barcode, Electrical- and Ex-ratings, country of origin, Module serial number.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials. The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE

Proposition 65



WARNING: This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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As standards, specifications, and design change from time to time,
please ask for confirmation of the information given in this publication.

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PSS 41H-2MARCERT, Rev. A