



CERTIFICATE NUMBER 18-YO1808013-PDA

EFFECTIVE DATE 27-DEC-2018

EXPIRATION DATE 26-DEC-2023

ABS TECHNICAL OFFICE Yokohama Engineering Services

CERTIFICATE OF

Product Design Assessment

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

SCHNEIDER ELECTRIC AUTOMATION GMBH

located at

MARKTHEIDENFELD

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 Programmable Logic Controller

Model TM221 Series and TM3 Series

This Product Design Assessment (PDA) Certificate 18-YO1808013-PDA, dated 27/Dec/2018 remains valid until 26/Dec/2023 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.

American Bureau of Shipping

Motohiro Tamura
Engineer/Consultant

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)

SCHNEIDER ELECTRIC AUTOMATION GMBH

SCHNEIDERPLATZ 1

MARKTHEIDENFELD

Germany 97828

Telephone: +49 (0) 9391 606 0

Fax: +49 (0) 9391 606 4000

Email:

Web: www.schneider-electric.com

Tier: 5 - Unit Certification Required

Product: Programmable Logic Controller

Model: TM221 Series and TM3 Series

Intended Service:

Programmable Logic Controllers (PLC) for controlling and monitoring of automation systems for ACC, ACCU and ABCU Classed Vessels.

Description:

TM221 Series and TM3 Series are modular type system consisted of various types of module components such as CPU Modules, Input and Output Modules, and other special function modules. System can be flexibly configured by selecting the required modules in accordance with the application.

Rating:

Power Supply: 5V/12V/24V dc, 100V-240V ac 50/60 Hz.

Ambient Temperature: 0-55 degree C

Detailed module names listed in the attached component list.

Service Restriction:

- 1) - Unit Certification is required for this product. The tests in the presence of the Surveyor are required in accordance with 4-9-8/Table 2 of the ABS Steel Vessels Rules "Performance Tests" where it is used for control, monitoring and safety systems of propulsion machinery, propulsion boilers, vital auxiliary pumps and electrical generating plants. The performance tests are to be carried out at the assembled plant before installation onboard or after installation onboard.
- 2) - Environmental temperature of where this equipment is installed is not to be more than 55°C.

Comments:

- 1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- 2) The following is applicable to the computer-based system in accordance with 4-9-3 of the ABS Steel Vessels Rules:
 - (a) The system is assigned as Category III
 - (b) The required evidence is to be kept by the manufacturer in accordance with 4-9-3/Table 2 of the ABS Steel Vessels Rules
- 3) The required evidence for the application software in accordance with 4-9-3/Table 2 of the ABS Steel Vessels Rules to be submitted by manufacturer/vender assembling the unit.
- 4) Unless specially directed by Administration, this approval is not to be construed as a substitute for flag Administration's approval for the purpose of SOLAS (Consolidated Edition 2014), as amended.

Notes/Drawing/Documentation:

Drawing No. PWB No.A, PWB No.A001-A018, Drawing No. PWB No.C, PWB No.C001-C032,
Drawing No. PWB No.D, PWB No.D001-D040, Dated 29 March 2013
Drawing No. PWB No.M, PWB No.M001-M018, Dated 18 June 2013
Drawing No. PWB No.P, PWB No.P001-P007,
Drawing No. Schematics No.A, Circuit Diagram, Dated 27 Dec. 2013
Drawing No. Schematics No.C, Circuit Diagram
Drawing No. Schematics No.D, Circuit Diagram, Dated 7 Aug. 2012
Drawing No. Schematics No.M, Circuit Diagram, Dated 1 Apr. 2013
Drawing No. Schematics No.P, Circuit Diagram, Dated 8 Jan. 2014
Test Report No.KL80140627, FC6A Test Report, Japan Quality Assurance Organization (JQA) dated 22 Jan. 2015
Drawing No. 16-306-019, List of drawings and documents, dated 8 Mar. 2016
Drawing No. 16-306-020, Product Covered and Ratings, dated 1 Mar. 2016
Drawing No. 16-306-033, External Configuration, dated 7 Mar. 2016
Drawing No. 16-306-034, General construction & Plastic Material List, dated 7 Mar. 2016
Drawing No. X0090-0L01H, Product specification, dated 16 Feb. 2015
Drawing No. Y1513-0L20E ~ Y1513-0L19C, Product specification

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MARKTHEIDENFELD
Germany 97828

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Drawing No. 16-306-038, Block diagram, dated 9 Mar. 2016

Drawing No. 16-306-048, Block diagram, dated 9 Mar. 2016

Drawing No. 10-391-162, Software development manual, dated 14 Jan. 2011

Test Report No. KL80160235, FC6A Additional Models Test Report for ABS, dated 25 Aug. 2016 issued by Japan Quality Assurance Organization (JQA)

ABS Surveyor Report No. KO2787917 dated 13 Feb. 2015

ABS Surveyor Report No. KO3166960 dated 25 July 2016

Drawing No. Test Report for ABS, Test_Report_for_Additional_Circuit_FC6A_Series_Analog_Modules, dated 15 June 2017 issued by IDEC Corp.

Drawing No. IDEC FC6A-J4CH1Y-J4CH4Y, Product specification for additional models

Drawing No. 18-306-011N, Test Report, Revision: 0, issued by IDEC, dated 19 March 2018

Drawing No. Comparison_Materials, Comparison Materials for Change in Circuit, Revision: 0

Drawing No. Drawings_for_PWB, Drawings for PWB for Change in Circuit, Revision: 0

Drawing No. Parts_List, Parts List for Change in Circuit, Revision: 0

Drawing No. Schematic_Diagram, Schematic Diagrams for Change in Circuit, Revision: 0

Drawing No. 18-306-039N, Test Report, Revision: 0, issued by IDEC, dated 10 October 2018

Drawing No. KL80180398, EMC Test Report, Revision: 0, issued by Japan Quality Assurance Organization (JQA), dated 10 October 2018

Terms of Validity:

This Product Design Assessment (PDA) Certificate 18-YO1808013-PDA, dated 27/Dec/2018 remains valid until 26/Dec/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

2018 Steel Vessel Rules 1-1-4/7.7, 1-1-A3 & A4, 4-8-3/5, 4-9-3 (Cat III) and 4-9-8/13

2018 Mobile Offshore Drilling Units Rules 1-1-4/9.7, 1-1-A2 & A3, 4-3-3/3.13 and 4-3-4/5

2018 Steel Vessels Under 90 Meters in Length Rules 1-1-4/7.7, 1-1-A3 & A4, 4-6-3/3.13 and 4-7-4/3

2018 Offshore Support Vessels Rules 1-1-4/7.7, 1-1-A3 & A4, 4-8-3/5, 4-9-3 (Cat III) and 4-9-8/13

2018 High-Speed Craft Rules 1-1-4/11.9, 1-1-A2 & A3, 4-6-3/13, 4-7-8 (Cat III) and 4-7-9/15

National:

NA

International:

NA

Government:

NA

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Tier: 5 - Unit Certification Required

EUMED:

NA

OTHERS:

IACS UR E10 (Rev.6 Oct 2014) and E22 (Rev.1 Sep 2010)

Design Assessment (DA) Certificate Attachment for Component

DA Certificate No: 18-YO1808013-PDA

Effective Date: 27 December 2018

Expire Date: 26 December 2023

Company: SCHNEIDER ELECTRIC AUTOMATION GMBH

Factory or Works:

Product/Equipment: Programmable Logic Controller

Model: TM221 Series and TM3 Series

Product	Type	Power Supply	Input	Output
CPU Module	TM221M16R	24 V dc, 150 mA	8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	8 Relay Outputs:240 V ac/30 V dc, 2 A (GEN/RES) 7 A/Common
	TM221M16RG	24 V dc, 150 mA	8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	8 Relay Outputs:240 V ac/30 V dc, 2 A (GEN/RES) 7 A/Common
	TM221ME16R	24 V dc, 180 mA	8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	8 Relay Outputs:240 V ac/30 V dc, 2 A (GEN/RES) 7 A/Common
	TM221ME16RG	24 V dc, 180 mA	8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	8 Relay Outputs:240 V ac/30 V dc, 2 A (GEN/RES) 7 A/Common
	TM221M16T	24 V dc, 135 mA	8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT. Total Max. 28.8 mA	8 Transistor Source Outputs: 24 V dc, 0.5 A/PT. Total Max. 3.2 A
	TM221M16TG	24 V dc, 135 mA	8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT. Total Max. 28.8 mA	8 Transistor Source Outputs: 24 V dc, 0.5 A/PT. Total Max. 3.2 A
	TM221ME16T	24 V dc, 165 mA	8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT. Total Max. 28.8 mA	8 Transistor Source Outputs: 24 V dc, 0.5 A/PT. Total Max. 3.2 A
	TM221ME16TG	24 V dc, 165 mA	8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT. Total Max. 28.8 mA	8 Transistor Source Outputs: 24 V dc, 0.5 A/PT. Total Max. 3.2 A
	TM221M32TK	24 V dc, 145 mA	16 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT. Total Max. 62.4 mA	16 Transistor Source Outputs: 24 V dc, 0.1 A/PT. Total Max. 1.3 A
	TM221ME32TK	24 V dc, 175 mA	16 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT. Total Max. 62.4 mA	16 Transistor Source Outputs: 24 V dc, 0.1 A/PT. Total Max. 1.3 A
	TM221C16R	100-240V ac, 50/60 Hz, 31VA	9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	7 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA
	TM221C16U	24 V dc, 160 mA	9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	7 Transistor Sink Outputs: 24 V dc, 0.5 A/PT
	TM221CE16R	100-240V ac, 50/60 Hz, 33VA	9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	7 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA
	TM221CE16U	24 V dc, 190 mA	9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	7 Transistor Sink Outputs: 24 V dc, 0.5 A/PT
	TM221C24R	100-240V ac, 50/60 Hz, 32VA	14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	10 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA
	TM221C24U	24 V dc, 170 mA	14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	10 Transistor Sink Outputs: 24 V dc, 0.5 A/PT
	TM221CE24R	100-240V ac, 50/60 Hz, 35VA	14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	10 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA
	TM221CE24U	24 V dc, 200 mA	14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	10 Transistor Sink Outputs: 24 V dc, 0.5 A/PT
	TM221C40R	100-240V ac, 50/60 Hz, 37VA	24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	16 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA
	TM221C40U	24 V dc, 172 mA	24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	16 Transistor Sink Outputs: 24 V dc, 0.5 A/PT
TM221CE40R	100-240V ac, 50/60 Hz, 41VA	24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	16 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA	
TM221CE40U	24 V dc, 205 mA	24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	16 Transistor Sink Outputs: 24 V dc, 0.5 A/PT	

Design Assessment (DA) Certificate Attachment for Component

DA Certificate No: 18-YO1808013-PDA

Effective Date: 27 December 2018

Expire Date: 26 December 2023

Company: SCHNEIDER ELECTRIC AUTOMATION GMBH

Factory or Works:

Product/Equipment: Programmable Logic Controller

Model: TM221 Series and TM3 Series

Product	Type	Power Supply	Input	Output
CPU Module	TM221C16T	24 V dc, 160 mA	9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	7 Transistor Source Outputs : 24 V dc, 0.5 A/PT.
	TM221CE16T	24 V dc, 190 mA	9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	7 Transistor Source Outputs : 24 V dc, 0.5 A/PT.
	TM221C24T	24 V dc, 170 mA	14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	10 Transistor Source Outputs : 24 V dc, 0.5 A/PT.
	TM221CE24T	24 V dc, 200 mA	14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	10 Transistor Source Outputs : 24 V dc, 0.5 A/PT.
	TM221C40T	24 V dc, 172 mA	24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	16 Transistor Source Outputs : 24 V dc, 0.5 A/PT.
	TM221CE40T	24 V dc, 205 mA	24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT	16 Transistor Source Outputs : 24 V dc, 0.5 A/PT.

Design Assessment (DA) Certificate Attachment for Component

DA Certificate No: 18-YO1808013-PDA

Effective Date: 27 December 2018

Expire Date: 26 December 2023

Company: SCHNEIDER ELECTRIC AUTOMATION GMBH

Factory or Works:

Product/Equipment: Programmable Logic Controller

Model: TM221 Series and TM3 Series

Product	Type	Power Supply	Input	Output
Input Module	TM3DI8	5 V dc, 30 mA	8 inputs, 24 V dc, 7 mA/PT	-
	TM3DI8G	5 V dc, 30 mA	8 inputs, 24 V dc, 7 mA/PT	-
	TM3DI16	5 V dc, 40 mA	16 inputs, 24 V dc, 7 mA/PT, Total Max. 123.2 mA	-
	TM3DI16G	5 V dc, 40 mA	16 inputs, 24 V dc, 7 mA/PT, Total Max. 123.2 mA	-
	TM3DI16K	5 V dc, 40 mA	16 inputs, 24 V dc, 5 mA/PT, Total Max. 72 mA	-
	TM3DI32K	5 V dc, 65 mA	32 inputs, 24 V dc, 5 mA/PT, Total Max. 144 mA	-
	TM3DI8A	5 V dc, 40 mA	8 inputs, 120 V ac, 50/60 Hz, 15 mA	-
	TM3DI8AG	5 V dc, 40 mA	8 inputs, 120 V ac, 50/60 Hz, 15 mA	-
Output Module	TM3DQ8R	24 V dc, 50 mA, 5 V dc, 35 mA	-	8 Relay Outputs, 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common
	TM3DQ8RG	24 V dc, 50 mA, 5 V dc, 35 mA	-	8 Relay Outputs, 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common
	TM3DQ16R	24 V dc, 100 mA, 5 V dc, 50 mA	-	16 Relay Outputs, 240 V ac/30 V dc, 2 A (GEN/RES), 8 A/Common
	TM3DQ16RG	24 V dc, 100 mA, 5 V dc, 50 mA	-	16 Relay Outputs, 240 V ac/30 V dc, 2 A (GEN/RES), 8 A/Common
	TM3DQ8T	24 V dc, 15 mA, 5 V dc, 25 mA	-	8 Transistor Source Outputs: 24 V dc, 0.5 A/PT
	TM3DQ8TG	24 V dc, 15 mA, 5 V dc, 25 mA	-	8 Transistor Source Outputs: 24 V dc, 0.5 A/PT
	TM3DQ16T	24 V dc, 25 mA, 5 V dc, 30 mA	-	16 Transistor Source Outputs: 24 V dc, 0.5 A/PT
	TM3DQ16TG	24 V dc, 25 mA, 5 V dc, 30 mA	-	16 Transistor Source Outputs: 24 V dc, 0.5 A/PT
	TM3DQ16TK	24 V dc, 25 mA, 5 V dc, 30 mA	-	16 Transistor Source Outputs: 24 V dc, 0.1 A/PT
	TM3DQ32TK	24 V dc, 50 mA, 5 V dc, 45 mA	-	32 Transistor Source Outputs: 24 V dc, 0.1 A/PT
	TM3DQ8U	24 V dc, 15 mA, 5 V dc, 25 mA	-	8 Transistor Sink Outputs: 24 V dc, 0.5 A/PT
	TM3DQ8UG	24 V dc, 15 mA, 5 V dc, 25 mA	-	8 Transistor Sink Outputs: 24 V dc, 0.5 A/PT
	TM3DQ16U	24 V dc, 25 mA, 5 V dc, 30 mA	-	16 Transistor Sink Outputs: 24 V dc, 0.5 A/PT
	TM3DQ16UG	24 V dc, 25 mA, 5 V dc, 30 mA	-	16 Transistor Sink Outputs: 24 V dc, 0.5 A/PT
	TM3DQ16UK	24 V dc, 25 mA, 5 V dc, 30 mA	-	16 Transistor Sink Outputs: 24 V dc, 0.1 A/PT
	TM3DQ32UK	24 V dc, 50 mA, 5 V dc, 45 mA	-	32 Transistor Sink Outputs: 24 V dc, 0.1 A/PT

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Company: SCHNEIDER ELECTRIC AUTOMATION GMBH

Factory or Works:

Product/Equipment: Programmable Logic Controller

Model: TM221 Series and TM3 Series

Product	Type	Power Supply	Input	Output
I/O Mixture Module	TM3DM8R	24 V dc, 25 mA, 5 V dc, 30 mA	4 Inputs, 24 V dc, 7 mA/PT	4 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common
	TM3DM8RG	24 V dc, 25 mA, 5 V dc, 30 mA	4 Inputs, 24 V dc, 7 mA/PT	4 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common
	TM3DM24R	24 V dc, 50 mA, 5 V dc, 55 mA	16 inputs, 24 V dc, 7 mA/PT. Total Max. 123.2 mA	8 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common
	TM3DM24RG	24 V dc, 50 mA, 5 V dc, 55 mA	16 Inputs, 24 V dc, 7 mA/PT. Total Max. 123.2 mA	8 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common
	TM3XTYS4	24 V dc, 25 mA, 5 V dc, 50 mA	12 Inputs, 24 V dc, 5 mA/PT	8 Source Transistor Outputs: 24 V dc, 0.3 A/PT.
Analog Module	TM3AI2H	24 V dc, 25 mA, 5 V dc, 40 mA	2 Analog Inputs	-
	TM3AI2HG	24 V dc, 25 mA, 5 V dc, 40 mA	2 Analog Inputs	-
	TM3AI4	24 V dc, 30 mA, 5 V dc, 45 mA	4 Analog Inputs	-
	TM3AI4G	24 V dc, 30 mA, 5 V dc, 45 mA	4 Analog Inputs	-
	TM3AI8	24 V dc, 40 mA, 5 V dc, 40 mA	8 Analog Inputs	-
	TM3AI8G	24 V dc, 40 mA, 5 V dc, 40 mA	8 Analog inputs	-
	TM3AQ2	24 V dc, 70 mA, 5 V dc, 40 mA	-	2 Analog Outputs
	TM3AQ2G	24 V dc, 70 mA, 5 V dc, 40 mA	-	2 Analog Outputs
	TM3AQ4	24 V dc,125 mA, 5 V dc, 50 mA	-	4 Analog Outputs
	TM3AQ4G	24 V dc,125 mA, 5 V dc, 50 mA	-	4 Analog Outputs
	TM3AM6	24 V dc,100 mA, 5 V dc, 55 mA	4 Analog Inputs	2 Analog Outputs
	TM3AM6G	24 V dc,100 mA, 5 V dc, 55 mA	4 Analog Inputs	2 Analog Outputs
	TM3TM3	24 V dc, 80 mA, 5 V dc, 60 mA	2 Analog Inputs	1 Analog Output
	TM3TM3G	24 V dc, 80 mA, 5 V dc, 60 mA	2 Analog Inputs	1 Analog Output
	TM3TI4	24 V dc, 40 mA, 5 V dc, 50 mA	4 Analog Inputs	-
	TM3TI4G	24 V dc, 40 mA, 5 V dc, 50 mA	4 Analog Inputs	-
	TM3TI8T	24 V dc, 30 mA, 5 V dc, 45 mA	8 Analog Inputs	-
	TM3TI8TG	24 V dc, 30 mA, 5 V dc, 45 mA	8 Analog Inputs	-
	TM3XPID2	24 V dc, 150 mA, 5 V dc, 65 mA	2 Analog Inputs	2 Analog Outputs or Digital Output

Design Assessment (DA) Certificate Attachment for Component

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Company: SCHNEIDER ELECTRIC AUTOMATION GMBH

Factory or Works:

Product/Equipment: Programmable Logic Controller

Model: TM221 Series and TM3 Series

Product	Type	Power Supply	Input	Output
Analog Module	TM3TI4D	24 V dc, 40 mA, 5V dc, 50 mA	4 Analog Inputs	-
	TM3TI4DG	24 V dc, 40 mA, 5V dc, 50 mA	4 Analog Inputs	-
Option Module	TMC2AI2	3.3 V dc, 30 mA	2 Analog Inputs	-
	TMC2HOIS01	3.3 V dc, 30 mA	2 Analog Inputs	-
	TMC2PACK01	3.3 V dc, 30 mA	2 Analog Inputs	-
	TMC2AQ2V	5 V dc, 70 mA, 3.3V dc, 30 mA	-	2 Analog Outputs
	TMC2AQ2C	5 V dc, 185 mA, 3.3V dc, 30 mA	-	2 Analog Outputs
	TMC2TI2	3.3 V dc, 30 mA	2 Analog Inputs	-
	TMC2SL1	5 V dc, 23 mA, 3.3V dc, 6 mA	2-Serial Communications (RS232C/RS485)	2-Serial Communications (RS232C/RS485)
	TMC2CONV01	5 V dc, 23 mA, 3.3V dc, 6 mA	2-Serial Communications (RS232C/RS485)	2-Serial Communications (RS232C/RS485)