



TYPE APPROVAL CERTIFICATE

Certificate No:
TAA0000265
Revision No:
5

This is to certify:

That the DC Power Supply

with type designation(s)

QUINT-UPS, QUINT-BUFFER, UPS-CAP, UPS-BAT, Battery Mounting Case, Battery Mounting Kit

Issued to

Phoenix Contact GmbH & Co. KG
Blomberg, Nordrhein-Westfalen, Germany

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/D***

Humidity **B**

Vibration **A/C***

EMC **A/B***

Enclosure **Required protection according to the Rules shall be provided upon installation on board.**

* see Application/Limitation

Issued at **Hamburg** on **2024-12-05**

This Certificate is valid until **2029-01-23**.

for **DNV**

DNV local station: **Essen**

Approval Engineer: **Heinz Scheffler**

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 300,000 USD.



Product description

Uninterruptible Power Supply QUINT-UPS/24DC/24DC/X:

- X = Nominal output current permanent 5 A, 10 A, 20 A, 40 A
- Nominal input voltage: 24 V DC
- Nominal output voltage: 24 V DC

Buffer Module QUINT-BUFFER/24DC/24DC/40:

- Nominal input voltage: 24 V DC, Buffer period 0.2s(40 A) - 8s (1 A)
- Nominal output voltage 24 V DC (depending on the input voltage)
- Output current 40 A

Capacity Module UPS-CAP/24DC/10A/10KJ; UPS-CAP/24DC/20A/20KJ

- Nominal input voltage: 24 V DC
- Buffer period 10KJ = 6 min (1A) - 33s (10 A), 20KJ = 12 min (1A) - 33s (20 A)
- Nominal output voltage 24 V DC (depending on the input voltage)
- Output current 10 A, 20 A

Rechargeable battery module VRLA technology UPS-BAT/VRLA-WTR/24DC/X:

- X= Nominal capacity 13 Ah, 26 Ah
- Nominal input voltage: 24 V DC

Rechargeable battery module VRLA technology UPS-BAT/VRLA/24DC/X:

- X= Nominal capacity 3.4 Ah, 7.2 Ah, 12 Ah, 20 Ah, 38 Ah
- Nominal input voltage: 24 V DC

Rechargeable battery module VRLA technology UPS-BAT/PB/24DC/X

- X= Nominal capacity 1.2 Ah, 4 Ah, 7 Ah, 12 Ah, 20 Ah, 40 Ah
- Nominal input voltage: 24 V DC

Maintenance-free Li-ion battery module UPS-BAT/LI/24DC/X

- X= Nominal capacity: 64Wh, 128Wh, 189Wh, 284Wh
- Nominal input voltage: 24 V DC

Battery Mounting Case and Battery Mounting Kit

Mounting Accessories For mounting battery modules and for the electronic control unit Supported battery modules:

Accessories	Battery Mounting Case		Battery Mounting Kit
	1 x BAT-Module	2 x BAT- Modules	1 x BAT-Module
UPS-BAT/VRLA/24DC/20AH	X	X	
UPS-BAT/VRLA/24DC/38AH	X		X
UPS-BAT/VRLA-WTR/24DC/13AH	X	X	X
UPS-BAT/VRLA-WTR/24DC/26AH	X		X
UPS-BAT/PB/24DC/20AH	X	X	X
UPS-BAT/PB/24DC/40AH	X		X

Communicating Pc to Phoenix Contact devices with IFS-USB-DATACABLE

Used for communicating between industrial PCs (USB 2.0) and Phoenix Contact devices with the 12-pos. IFS data port.

Application/Limitation

Location classes:

- **EMC B:** QUINT-UPS/24DC/24DC/40A; UPS-BAT/VRLA/24DC/38Ah; UPS-BAT/PB/24DC/40A; UPS-BAT/LI/24DC/64WH; UPS-BAT/LI/24DC/128WH; UPS-BAT/LI/24DC/189WH; UPS-BAT/LI/24DC/284WH
- **Vibration C:** QUINT-UPS/24DC/24DC/X
- **Temperature D:** QUINT-UPS/24DC/24DC/X

Important instructions

- Safety Data Sheets and Manufacturer's instructions must be observed.
- A suitable battery to be used for the application.
- Ambient temperature (operation) battery module must be observed.
- Battery module service life depends on the Ambient temperature.

IEC 62619:2022

Lithium iron phosphate battery in conformity with IEC 62619:2022 issued by a notified/recognized Certification Body: Certificate DK-145499-UL; DK-145514-UL; DK-144806-UL; DK-144810-UL.

The Type Approval covers hardware listed under Product description. 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 Ships Pt.4 Ch.9 Control and Monitoring Systems.

Type Approval documentation

Test reports and Documents: TAA0000265_Overview_Documents_Rev.07

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021

Place of Production

According to TAA0000265 Overview Documents Rev.06

Marking of product

The products to be marked with:

- Model name
- Manufacturer name
- 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

EU-Konformitätserklärung

EU Declaration of Conformity

Nr. / No. 083222583_02



Hersteller / Manufacturer: **Phoenix Contact GmbH & Co. KG**
Anschrift / Address: **Flachsmarktstraße 8, 32825 Blomberg, Germany**
Produktbezeichnung / Product designation: **UPS-BAT/PB/24DC/1.2AH**
Artikel-Nr. / Order No.: **1274520**

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller. Die in dieser Erklärung bezeichneten Produkte stimmen mit den einschlägigen Anforderungen der folgenden Harmonisierungsrechtsvorschriften überein:
This declaration of conformity is issued under the sole responsibility of the manufacturer. The products specified in this declaration are in conformity with the following relevant harmonization legislation:

2011/65/EU (OJ L 174, 1 July 2011) **Beschränkung der Verwendung bestimmter gefährlicher Stoffe**
Restriction of the use of certain hazardous substances (RoHS)
2014/30/EU (OJ L 96, 29 March 2014) **EMV-Richtlinie (Elektromagnetische Verträglichkeit)**
Electromagnetic Compatibility Directive (EMC)

Für die Beurteilung der Übereinstimmung wurden folgende einschlägige Normen herangezogen:
The following pertinent standards have been applied for the assessment of conformity:

EN 61000-6-3:2007+A1:2011+ AC:2012 **EN IEC 61000-6-2:2019**
EN IEC 63000:2018

Ergänzende Informationen (z. B. Anmerkungen, Einschränkungen, etc.) zur Konformitätsbewertung:
Supplementary information (e.g., comments, restrictions, etc.) for conformity assessment:

Die Batterien dieses Geräts sind von der Richtlinie 2011/65/EU ausgenommen.
Die Richtlinie 2011/65/EU gilt für alle übrigen Teile dieses Geräts.
Die enthaltenen Batterien werden nicht von Phoenix Contact hergestellt und entsprechen Verordnung (EU) Nr. 2023/1542, gemäß Erklärung Nr. EU2023/1542 - 02 vom 21.06.2024 des Batterieherstellers.
The batteries in this appliance are exempt from Directive 2011/65/EU.
Directive 2011/65/EU applies to all other parts of this device.
The batteries contained are not manufactured by Phoenix Contact and comply with Regulation (EU) No. 2023/1542, according to Declaration No. EU2023/1542 - 02 of 21.06.2024 of the battery manufacturer.

Die nachfolgend aufgeführten Produkte sind ebenfalls Bestandteil dieser EU-Konformitätserklärung:
The products listed below are also part of this EU declaration of conformity:

Artikel-Nr. / Order No.	Produktbezeichnung / Product designation
1274117	UPS-BAT/PB/24DC/4AH
1274118	UPS-BAT/PB/24DC/7AH
1274119	UPS-BAT/PB/24DC/12AH

Blomberg, 2024-08-14

i.A.

Philipp Heitkämper
Business Unit Power Supplies
Approval Management

Ansprechpartner / Contact person

Lars Walter
Business Unit Power Supplies
Director Quality Management and Safety

Zeichnungsberechtigter / Authorized signatory



TYPE APPROVAL CERTIFICATE

Certificate No:
TAA00000YV
Revision No:
7

This is to certify:

That the Network and Communication Components

with type designation(s)
FL SWITCH 2000 and FL NAT 2000 Series

Issued to
Phoenix Contact GmbH & Co. KG
Blomberg, Nordrhein-Westfalen, Germany

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	D
Humidity	B
Vibration	A
EMC	B
Enclosure	Required protection according to the Rules shall be provided upon installation on board

Issued at **Hamburg** on **2024-02-06**

for **DNV**

This Certificate is valid until **2027-02-21**.

DNV local station: **Essen**

Approval Engineer: **Heinz Scheffler**

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Joannis Papanuskas
Head of Section

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Product description

Managed Switches FL SWITCH 2xxx

Order designation*	Order Nr.	Copper ports		Fiberglass ports	
		10/100 Mbps	10/100/1000 Mbps	100 Mbps	100/1000 Mbps
FL SWITCH 2205	2702326	5 x RJ45			
FL SWITCH 2208	2702327	8 x RJ45			
FL SWITCH 2208 PN	1044024	8 x RJ45			
FL SWITCH 2207-FX	2702328	7 x RJ45		1 x MM SC	
FL SWITCH 2207-FX SM	2702329	7 x RJ45		1 x SM SC	
FL SWITCH 2206-2FX	2702330	6 x RJ45		2 x MM SC	
FL SWITCH 2206-2FX SM	2702331	6 x RJ45		2 x SM SC	
FL SWITCH 2206-2FX ST	2702332	6 x RJ45		2 x MM ST	
FL SWITCH 2206-2FX SM ST	2702333	6 x RJ45		2 x SM ST	
FL SWITCH 2206-2SFX	2702969	6 x RJ45		2 x SFX	
FL SWITCH 2206-2SFX PN	1044028	6 x RJ45		2 x SFX	
FL SWITCH 2204-2TC-2SFX	2702334	4 x RJ45		2 x Combo 2 x SFX	
FL SWITCH 2216	2702904	16 x RJ45			
FL SWITCH 2216 PN	1044029	16 x RJ45			
FL SWITCH 2214-2FX	2702905	14 x RJ45		2 x MM SC	
FL SWITCH 2214-2FX SM	2702906	14 x RJ45		2 x SM SC	
FL SWITCH 2214-2SFX	1006188	14 x RJ45		2 x SFX	
FL SWITCH 2214-2SFX PN	1044030	14 x RJ45		2 x SFX	
FL SWITCH 2212-2TC-2SFX	2702907	12 x RJ45		2 x Combo 2 x SFX	
FL SWITCH 2308	2702652		8 x RJ45		
FL SWITCH 2308 PN	1009220		8 x RJ45		
FL SWITCH 2306-2SFP	2702970		6 x RJ45		2 x SFP
FL SWITCH 2306-2SFP PN	1009222		6 x RJ45		2 x SFP
FL SWITCH 2304-2GC-2SFP	2702653		4 x RJ45		2 x Combo 2 x SFP
FL SWITCH 2316	2702909		16 x RJ45		
FL SWITCH 2316 PN	1031673		16 x RJ45		
FL SWITCH 2314-2SFP	1006191		14 x RJ45		2 x SFP
FL SWITCH 2314-2SFP PN	1031683		14 x RJ45		2 x SFP
FL SWITCH 2312-2GC-2SFP	2702910		12 x RJ45		2 x Combo 2 x SFP
FL SWITCH 2408	1043412	8 x RJ45			
FL SWITCH 2408 PN	1089133	8 x RJ45			
FL SWITCH 2406-2SFX	1043414	6 x RJ45		2 x SFX	
FL SWITCH 2406-2SFX PN	1089126	6 x RJ45		2 x SFX	
FL SWITCH 2404-2TC-2SFX	1088853	4 x RJ45		2 x Combo, 2 x SFX	
FL SWITCH 2416	1043416	16 x RJ45			
FL SWITCH 2416 PN	1089150	16 x RJ45			
FL SWITCH 2414-2SFX	1043423	14 x RJ45		2 x SFX	
FL SWITCH 2414-2SFX PN	1089139	14 x RJ45		2 x SFX	
FL SWITCH 2412-2TC-2SFX	1088875	12 x RJ45		2 x Combo, 2 x SFX	
FL SWITCH 2508	1043484		8 x RJ45		
FL SWITCH 2508 PN	1089134		8 x RJ45		
FL SWITCH 2506-2SFP	1043491		6 x RJ45		2 x SFP
FL SWITCH 2506-2SFP PN	1089135		6 x RJ45		2 x SFP
FL SWITCH 2504-2GC-2SFP	1088872		4 x RJ45		2 x Combo,

Order designation*	Order Nr.	Copper ports		Fiberglass ports	
		10/100 Mbps	10/100/1000 Mbps	100 Mbps	100/1000 Mbps
					2 x SFP
FL SWITCH 2516	1043496		16 x RJ45		
FL SWITCH 2516 PN	1089205		16 x RJ45		
FL SWITCH 2514-2SFP	1043499		14 x RJ45		2 x SFP
FL SWITCH 2514-2SFP PN	1089154		14 x RJ45		2 x SFP
FL SWITCH 2512-2GC-2SFP	1088856		12 x RJ45		2 x Combo, 2 x SFP
FL SWITCH 2506-2SFP/K1	1215329		6 x RJ45		2 x SFP
FL SWITCH 2508/K1	1215350		6 x RJ45		

*Above listed devices with Order designation may have additional name suffix /K1 to /K9 or /KA to /KZ. These devices are certified devices that are only preconfigured with application-relevant software settings.

Firmware: 3.x.y

Managed Switches / Router FL NAT 2xxx

Order designation*	Order Nr.	Copper ports		Fiberglass ports	
		10/100 Mbps	10/100/1000 Mbps	100 Mbps	100/1000 Mbps
FL NAT 2208	2702882	8 x RJ45			
FL NAT 2304-2GC-2SFP	2702981		4 x RJ45		2 x Combo 2 x SFP

*Above listed devices with Order designation may have additional name suffix /K1 to /K9 or /KA to /KZ. These devices are certified devices that are only preconfigured with application-relevant software settings.

Firmware: 3.x.y

Small form-factor pluggable (SFP)

- FL SFP SX2 (2702397)
- FL SFP FE WDM20-A (2702437)
- FL SFP FE WDM20-B (2702438)
- FL SFP FE WDM20-SET (2702439)
- FL SFP WDM10-A (2702440)
- FL SFP WDM10-B (2702441)
- FL SFP WDM10-SET (2702442)
- FL SFP FX (2891081)
- FL SFP FX SM (2891082)
- FL SFP SX (2891754)
- FL SFP LX (2891767)
- FL SFP LH (2989912)

Application/Limitation

The Type Approval covers hardware listed under Product description. 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 Ships Pt.4 Ch.9 Control and Monitoring Systems.

Product certificate

If specified in the Rules, ref. Pt.4 Ch.9 Sec.1, 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 the certification the clause for application software control will be put into force.

Clause for application software control

All changes in software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to DNV for evaluation and approval. Major changes in the software are to be approved before being installed in the computer.

Type Approval documentation

Test Reports and Documents: TAA00000YV_Overview_Documents_Rev.06a

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.

Marking of product

The products to be marked with:

- Model name
- Manufacturer name
- 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

EU-Konformitätserklärung

EU Declaration of Conformity
Nr. / No. 083192232_03_DoC_EU



Hersteller / Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**
Anschritt / Address: **Flachsmarktstraße 8, 32825 Blomberg, Germany**
Produktbezeichnung / Product designation: **FL SWITCH 2206-2FX**
Artikel-Nr. / Order No.: **2702330**

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller. Die in dieser Erklärung bezeichneten Produkte stimmen mit den einschlägigen Anforderungen der folgenden Harmonisierungsrechtsvorschriften überein:
This declaration of conformity is issued under the sole responsibility of the manufacturer. The products specified in this declaration are in conformity with the following relevant harmonization legislation:

2011/65/EU (OJ L 174, 1 July 2011)	Beschränkung der Verwendung bestimmter gefährlicher Stoffe Restriction of the use of certain hazardous substances (RoHS)
2014/30/EU (OJ L 96, 29 March 2014)	EMV-Richtlinie (Elektromagnetische Verträglichkeit) Electromagnetic Compatibility Directive (EMC)
2014/34/EU (OJ L 96, 29 March 2014)	Geräte in explosionsgefährdeten Bereichen Equipment for explosive atmospheres (ATEX)

Für die Beurteilung der Übereinstimmung wurden folgende einschlägige Normen herangezogen:
The following pertinent standards have been applied for the assessment of conformity:

EN IEC 60079-0:2018	EN IEC 60079-7:2015 + A1:2018
EN IEC 61000-6-2:2019	EN IEC 61000-6-4:2019
EN IEC 63000:2018	

Ergänzende Informationen (z. B. Anmerkungen, Einschränkungen, etc.) zur Konformitätsbewertung:
Supplementary information (e.g., comments, restrictions, etc.) for conformity assessment:

Warnung: Dies ist ein Klasse A-Erzeugnis. In Wohngebieten kann es zu Störungen des Funkempfanges kommen. Der Betreiber soll entsprechende Schutzmaßnahmen treffen.
Warning: This is a Class A product. In a domestic environment it may cause radio interference, in which case the user may be required to take adequate measures.

Die nachfolgend aufgeführten Produkte sind ebenfalls Bestandteil dieser EU-Konformitätserklärung:
The products listed below are also part of this EU declaration of conformity:

Artikel-Nr. / Order No.	Produktbezeichnung / Product designation
1044024	FL SWITCH 2208 PN
2702326	FL SWITCH 2205
2702327	FL SWITCH 2208
2702328	FL SWITCH 2207-FX
2702329	FL SWITCH 2207-FX SM
2702331	FL SWITCH 2206-2FX SM
2702332	FL SWITCH 2206-2FX ST
2702333	FL SWITCH 2206-2FX SM ST
2702882	FL NAT 2208

Bad Pyrmont, 2023-03-22

Michael Echterhoff
Business Unit Automation Infrastructure
Development Networks

Ansprechpartner / Contact person

Martin Müller
Business Unit Automation Infrastructure
Vice President

Zeichnungsberechtigter / Authorized signatory

TYPE APPROVAL CERTIFICATE

Certificate no.:
TAA00000BM
Revision No:
9

This is to certify:
that the DC Power Supply

with type designation(s)
TRIO Power Supply Series & TRIO UPS & QUINT4 UPS

issued to
Phoenix Contact GmbH & Co. KG
Blomberg, Nordrhein-Westfalen, Germany

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/B/D*
Humidity	B
Vibration	A/B/C*
EMC	A/B*
Enclosure	Required protection according to the Rules shall be provided upon installation on board.

* see Product description

Issued at **Hamburg** on **2025-04-29**

This Certificate is valid until **2030-02-11**.

DNV local unit: **Essen**

Approval Engineer: **Heinz Scheffler**



for **DNV**

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

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Product description

Power supply unit

Primary-switched power supply	Nominal Input Voltage Range	EMC Class	Vibration Class	Temperature Class
TRIO-PS/1AC/24DC/2.5 2866268	100 VAC – 240 VAC 85 VAC – 264 VAC	A	B	D
TRIO-PS/1AC/24DC/5 2866310	100 VAC – 240 VAC 85 VAC – 264 VAC	A	B	D
TRIO3-PS/1AC/24DC/5 1159037	100 VAC – 240 VAC 100 VDC – 240 VDC	A	B	D
TRIO3-PS/1AC/24DC/10 1159038	100 VAC – 240 VAC 85 VAC – 264 VAC	A	B	D
TRIO3-PS/1AC/24DC/20 1159039	100 VAC – 240 VAC 85 VAC – 264 VAC	A	B	D
TRIO-PS-2G/1AC/24DC/3/C2LPS 2903147	100 VAC – 240 VAC 110 VDC – 250 VDC	A	B	D
TRIO-PS-2G/1AC/24DC/5 2903148	100 VAC – 240 VAC 110 VDC – 250 VDC	A	B	D
TRIO-PS-2G/1AC/24DC/5/B+D 2903144	100 VAC – 240 VAC 110 VDC – 250 VDC	B	B	D
TRIO-PS-2G/1AC/24DC/10/B+D 2903145	100 VAC – 240 VAC 110 VDC – 250 VDC	B	B	D
TRIO-PS-2G/1AC/24DC/10 2903149	100 VAC – 240 VAC 110 VDC – 250 VDC	A	B	D
TRIO-PS-2G/1AC/24DC/20 2903151	100 VAC – 240 VAC 110 VDC – 250 VDC	A	B	D
TRIO-PS-2G/3AC/24DC/5 2903153	400 VAC – 500 VAC	A	B	D
TRIO-PS-2G/3AC/24DC/10 2903154	400 VAC – 500 VAC	A	B	D
TRIO-PS-2G/3AC/24DC/20 2903155	400 VAC – 500 VAC	A	B	D

Uninterruptible power supply

Primary-switched power supply	Nominal Input Voltage Range	EMC Class	Vibration Class	Temperature Class
TRIO-UPS-2G/1AC/1AC/120V/750VA 2905908	96 V AC - 138 V AC	A	A	A
TRIO-UPS-2G/1AC/1AC/230V/750VA 2905909	184 V AC - 264 V AC	A	A	A
QUINT4-UPS/1AC/1AC/1kVA 2320283	100VAC – 240VAC	A	A	A
QUINT4-UPS/1AC/1AC/500VA/USB 1067327	100VAC – 240VAC	A	A	B
TRIO-UPS/1AC/24DC/5 2866611	100VAC – 240VAC	B	A	D
TRIO-UPS-2G/1AC/24DC/5 2907160	100VAC – 240VAC 110VDC – 250VDC	B	A	D
TRIO-UPS-2G/1AC/24DC/10 2907161	100VAC – 240VAC 110VDC – 250VDC	B	A	D
TRIO-UPS-2G/3AC/24DC/20 2906367	100VAC – 240VAC 110VDC – 250VDC	B	A	D
TRIO3-UPS/1AC/24DC/5 1359613	100VAC – 240VAC 100VDC – 240VDC	A	C	D
TRIO3-UPS/1AC/24DC/5/485-USB 1359612	100VAC – 240VAC 100VDC – 240VDC	A	C	D
TRIO3-UPS/1AC/24DC/10 1359610	100VAC – 240VAC 100VDC – 240VDC	A	C	D
TRIO3-UPS/1AC/24DC/10/485-USB 1359604	100VAC – 240VAC 100VDC – 240VDC	A	C	D

All model/catalogue number(s) may be followed by a suffix of one or more alphanumeric or special characters including " - / , . _ " or semicolon or blank, for internal references or customer identification only, not EMC or Environmental relevant.

Application/Limitation

Temperature-dependent derating: At ambient temperatures above +60 °C and +55 °C (TRIO-UPS/1AC/24DC/5), the output power must be decreased by 2.5 % per Kelvin increase in temperature.

The Type Approval covers hardware listed under Product description. 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.

Type Approval documentation

Test Reports and Documents: TAA00000BM_Overview_Documents_Rev.04

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.

For the bridge mounted components, the "Compass safe distance" were measured according to section 11.2 of IEC 60945, 4th edition (2002) for EMC class B.

Applicable tests according to IEC 60945:2002/COR1:2008; Section 7.1; 7.3; 7.4; 8.2; 8.3; 8.4; 8.7; 9.2; 10.3-10.9; 11.2; (only Article No. 2903144; 2903145; 2907160; 2907161; 2906367)

Marking of product

The products to be marked with:

- model name
- manufacturer name
- 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

EU-Konformitätserklärung Nr. 2907160.CE.01

EU-Declaration of Conformity No. 2907160.CE.01

Hersteller / Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**
Anschrift / Address: **Flachsmarktstraße 8, 32825 Blomberg, Germany**

Produktbezeichnung / Product description: **TRIO-UPS-2G/1AC/24DC/5**
(Artikelbezeichnung, / Article description,
Artikel-Nr. / Article-/Part no.) **2907160**

Der obige Hersteller erklärt in alleiniger Verantwortung, dass das/die hier bezeichnete(n) Produkt(e) mit den wesentlichen Anforderungen der nachfolgend genannten Richtlinie(n) und deren Änderungsrichtlinien übereinstimmt / *The above manufacturer declares in sole responsibility, that the here specified product(s) is/are in line with the essential requirements of the following directive(s) and their delegated directive(s):*

2011/65/EU	Beschränkung der Verwendung bestimmter gefährlicher Stoffe Restriction of the use of certain hazardous substances (RoHS)
2014/30/EU	EMV-Richtlinie (Elektromagnetische Verträglichkeit) Electromagnetic Compatibility Directive (EMC)
2014/35/EU	Niederspannungs-Richtlinie Low Voltage Directive (LVD)

Für die Beurteilung der Übereinstimmung wurden folgende einschlägige Normen herangezogen:
For evaluation of the conformity following relevant standards were consulted:

EN IEC 61010-2-201:2018 EN IEC 61000-6-2:2019 EN IEC 61000-6-4:2019
EN IEC 63000:2018

Ergänzende Informationen (z. B. Anmerkungen, Einschränkungen, etc.) zur Konformitätsbewertung:
Supplementary information (eg comments, restrictions, etc.) on conformity assessment:

Zertifikate einer benannten Stelle / *Certificates by a notified body:*

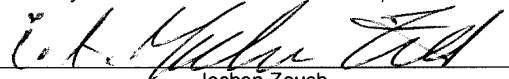
Anschrift / Address: _____

Referenz / Reference: _____

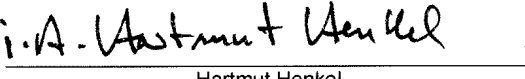
- Diese Erklärung gilt auch für die im Anhang aufgelisteten Produkte. (wenn angekreuzt)
This declaration also applies for the products listed in the annex. (if marked with a cross)

Diese Erklärung bescheinigt die Übereinstimmung mit den wesentlichen Anforderungen der genannten Richtlinie(n), enthält jedoch keine Zusicherung von Eigenschaften. Die Sicherheits- und Einbauhinweise der mitgelieferten Produktdokumentation sind zu beachten.
This declaration certifies the conformity with the essential requirements of the indicated directive(s), it does not, however, covenant any characteristics. The instructions for safety and installation of the enclosed product documentation have to be observed.

Blomberg, 2021-06-21


Jochen Zeuch
PHOENIX CONTACT Power Supplies GmbH
Approval Management

Ansprechpartner / contact person ¹


Hartmut Henkel
PHOENIX CONTACT Power Supplies GmbH
Director Marketing & Sales

Zeichnungsberechtigter / authorized signatory

Warnung: Dies ist ein Klasse A-Erzeugnis. In Wohngebieten kann es zu Störungen des Funkempfanges kommen. Der Betreiber soll entsprechende Schutzmaßnahmen treffen.

Warning: This is a Class A product. In a domestic environment it may cause radio interference, in which case the user may be required to take adequate measures.

¹ Ansprechpartner ist auch für die technischen Unterlagen verantwortlich. / *Contact person is also responsible for the technical documentation.*

Déclaration UE de Conformité EU Declaration of Conformity

N°/Nr: FD16032918B

Identification Produits / Products identification :

Type de produits : Disjoncteurs pour la protection contre les surintensités pour installations domestiques et analogues

Type of products : Circuit-breakers for overcurrent protection for household and similar installations

Modèles / Models : iC60a,N,H,L
In: 0,5,1,2,3,4,6,8,10,13,16,20,25,32,40,50,63A
1P, 1P+N, 2P, 3P, 3P+N, 4P – B, C, D curves.

Références / References: A9Fx x x x x

Nous, soussignés SCHNEIDER ELECTRIC INDUSTRIES SAS, déclarons par la présente que nos produits catalogués sous marque Schneider Electric, et sous réserve d'installation, d'entretien et d'utilisation conformes à leur destination, à la réglementation, aux normes en vigueur au sein du pays d'installation, aux instructions du constructeur et aux règles de l'art, sont conformes aux exigences essentielles des Directives Européennes suivantes.

La présente déclaration de conformité est établie sous la seule responsabilité du fabricant.

We undersigned SCHNEIDER ELECTRIC INDUSTRIES SAS declare that Schneider Electric branded products, when subject to correct installation, maintenance and use conforming to their intended purpose, according to applicable regulations and standards in the country where they are installed, to the supplier's instructions and to accepted rules of the art comply with Essential Requirements of following European Directives.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Directive Basse Tension : 2014/35/UE

Low Voltage Directive : 2014/35/EU

Directive RoHS : 2011/65/UE
: 2015/863/UE

RoHS Directive: 2011/65/EU
: 2015/863/EU

Basé sur les normes suivantes / Based on following standards :

- EN 60898-1:2019
- EN 60947-2: 2017+A1:2020 in conjunction with EN 60947-1: 2007 +A1:2011+A2:2014
- EN IEC 63000: 2018 (RoHS)

Le marquage CE sur le(les) produits et/ou son(leur) emballage signifie que Schneider Electric tient à la disposition des autorités de l'Union Européenne le(s) dossier(s) technique(s) de référence.

The CE marking on the product(s) and/or its(their) packaging signifies that Schneider Electric holds the reference technical file(s) available to the European authorities.

Année d'apposition du marquage CE / CE marking application year: 2010

DocuSigned by:

Shuhui Zhu

3E41653C276F460...

Nom et Titre / Name and Title : Zoe ZHU , Supply Chain & Quality SVP
Au nom de / On behalf of : Schneider Electric Industries SAS
Date / Date (yyyy-mm-dd) : 2021 - 11 - 18
A / Place : Shanghai, China

Schneider Electric Industries SAS

Postal address / Adresse postale :
No. 3000, LongDong Avenue Pudong,
Building 4F#11
Shanghai 201203
China

<http://www.schneider-electric.com>
EU DoC – v4 Home and Distribution

Legal information / Mentions légales

Société par actions simplifiée au capital de 896 313 776 euros
954 503 439 rcs Nanterre – code APE : 2712Z
Siret : 954 503 439 01719
n° ident. TVA : FR 04 954 503 439
Siège social : 35 rue Joseph Monier
F – 92500 Rueil-Malmaison

Déclaration UE de Conformité EU Declaration of Conformity

N°/Nr: FD16032918B

Description des références / References description :

A9F	X	X	X	X	X
	↓	↓	↓	↓	↓
	0	3	0	0	0
	4	4	1	1	1
	5	5	2	2	2
	6	6	3	3	3
	7	7	4	4	4
	8	8	5	5	5
		9	6	6	6
			7	7	7
			8	8	8
			9	9	9

Schneider Electric Industries SAS

Postal address / Adresse postale :
No. 3000, LongDong Avenue Pudong,
Building 4F#11
Shanghai 201203
China

<http://www.schneider-electric.com>
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954 503 439 rcs Nanterre – code APE : 2712Z
Siret : 954 503 439 01719
n° ident. TVA : FR 04 954 503 439
Siège social : 35 rue Joseph Monier
F – 92500 Rueil-Malmaison



TYPE APPROVAL CERTIFICATE

Certificate No:
TAE00000UU
Revision No:
3

This is to certify:

That the Miniature Circuit Breaker

with type designation(s)
iC60

Issued to

Schneider Electric Industries SAS
Eybens, France

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2023-07-17**

for **DNV**

This Certificate is valid until **2027-12-31**.

DNV local unit: **France CMC**

Approval Engineer: **Nicolay Horn**

Frederik Tore Elter
Head of Section

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 300,000 USD.



Name and Place of manufacturer

Schneider Electric / Merlin Gerin
 F-30319 Alès Cedex, France

M/s. Schneider Electric India Pvt. Ltd.
 Chennai-600056, India

Schneider Electric Bulgaria EOOD
 4202 Radinovo, Bulgaria

Product description

Miniature Circuit Breakers with the following type designations:

AC

Type iC60N:

Number of poles:	1, 1+N, 2, 3, 4	
Rated operation voltage AC (V):	12-60 (ph/N), 12-133 (ph/ph), 100-133 (ph/N), 220-240, 380 -415 (ph/ph), 440 (ph/ph)	
Uimp (kV):	6	
Rated current (A):	0.5 - 63, (1 - 63 in DC)	
Frequency (Hz):	50 - 60	
Rated Ambient Temperature:	50°C	
Utilization Category	A	
Tripping characteristics:	B, C, D	
Breaking capacity Icu:	Ph / N	Ph / Ph
12 - 60V	50 kA (0.5 - 4A), 36 kA (6 - 63A)	-
12 -133V	-	50 kA (0.5 - 4A), 36 kA (6 - 63A)
100 - 133V	50 kA (0.5 - 4A), 20 kA (6 - 63A)	-
220 - 240V	50 kA (0.5 - 4A), 10 kA (6 - 63A)	50 kA (0.5 - 4A), 20 kA (6 - 63A)
380 - 415V	-	50 kA (0.5 - 4A), 10 kA (6 - 63A)
440V	-	25 kA (0.5 - 4A), 6 kA (6 - 63A)
Breaking capacity Ics:	100% of Icu (0.5 - 4A)	
	75% of Icu (6 - 63A)	
Power factor:	0.2 - 0.85	

Type iC60H:

Number of poles:	1, 1+N, 2, 3, 4	
Rated operation voltage AC (V):	12-60 (ph/N), 12-133 (ph/ph), 100-133 (ph/N), 220-240, 380 -415 (ph/ph), 440 (ph/ph)	
Uimp (kV):	6	
Rated current (A):	0.5 - 63, (1 - 63 in DC)	
Frequency (Hz):	50 - 60	
Rated Ambient Temperature:	50°C	
Utilization Category:	A	
Tripping characteristics:	B, C, D	
Breaking capacity Icu:	Ph / N	Ph / Ph
12 - 60V	70 kA (0.5 - 4A), 42 kA(6 - 63A)	-
12 -133V	-	70 kA (0.5 - 4A), 42 kA (6 - 63A)
100 - 133V	70 kA (0.5 - 4A), 30 kA(6 - 63A)	-
220 - 240V	70 kA (0.5 - 4A), 15 kA(6 - 63A)	70 kA (0.5 - 4A), 30 kA (6 - 63A)
380 - 415V	-	70 kA (0.5 - 4A), 15 kA (6 - 63A)
440V	-	50 kA (0.5 - 4A), 10 kA (6 - 63A)
Breaking capacity Ics:	100% of Icu (0.5 - 4A)	
	50% of Icu (6 - 63A)	
Power factor:	0.2 - 0.85	

Type iC60L

Number of poles:	1, 1+N, 2, 3, 4	
Rated operation voltage AC (V):	12-60 (ph/N), 12-133 (ph/ph), 100-133 (ph/N), 220-240, 380 -415 (ph/ph), 440 (ph/ph)	
Uimp (kV):	6	
Rated current (A):	0.5 - 63, (1 – 63 in DC)	
Frequency:	50 - 60 Hz	
Rated Ambient Temperature:	50 °C	
Utilization Category	A	
Tripping characteristics:	B, C, K, Z	
Breaking capacity Icu:	Ph / N	Ph / Ph
12 - 60V	100 kA (0.5 - 4A), 70 kA (6 - 63A)	100 kA (0.5 - 4A), 80 kA (6 - 63A)
12 -133V	-	-
100 - 133V	100 kA (0.5 - 4A), 50 kA (6 - 25A) 36 kA (32/40A), 30 kA(50/63A)	100 kA (0.5 - 4A), 70 kA (6 - 63A)
220 - 240V	100 kA (0.5 - 4A), 25 kA(6 - 25A) 20 kA (32/40A), 15 kA(50 /63A)	100 kA (0.5 - 4A), 50 kA (6 - 25A) 36 kA (32 / 40A), 30 kA (50/63A)
380 - 415V	-	100 kA (0.5 - 4A), 25 kA (6 - 25A) 20 kA (32 / 40A), 15 kA (50/63A)
440V	-	70 kA (0.5 - 4A), 20 kA (6 - 25A) 15 kA (32 / 40A), 10 kA (50/63A)
Breaking capacity Ics:	100% of Icu (0.5 - 4A) 50% of Icu (6 - 63A)	
Power factor:	0.2 - 0.85	

DC

Type	iC60N	iC60H	iC60L
Number of poles	1P, 1P+N, 2, 3, 4P	1P, 1P+N, 2, 3, 4P	1P, 2, 3, 4P
Rated operation voltage DC (V):	12-72 (1 ph), ≤125 (2P in series), ≤180 3P in series, ≤250 (4P in series)		
Uimp (kV):	6		
Ratings (A) In	0.5 to 63		
Rated Ambient Temperature:	50°C		
Utilization Category	A		
Tripping characteristics:	B, C, D	B, C, D	B, C, K, Z
DC Breaking capacity Icu:			
12 V up to 60 V (1P)	15	20	25
≤ 72 V (1P)	10	15	20
≤ 125 V (2P in series)	10	15	20
≤ 180 V (3P in series)	10	15	20
≤ 250 V (4P in series)	10	15	20
DC Breaking capacity Ics:	100 % of Icu	100 % of Icu	100 % of Icu

Application /limitation

For installation inside switchboard, distribution board and control gear enclosures.

Environmental classes:

Vibration class	A
Humidity class	B
Temperature class	A

Type Approval documentation

Technical Info :

«Schneider Electric Acti9 iC60 miniature circuit breaker – Marine certification request ». Brochure from Schneider dated 2013-04-10.

Test reports:

TÜV Test report nos 28231175 001 issued 2016-02-24 and 28231177 001 & 28231177 001 issued 2016-02-26 and 28226592 001 issued 2015-03-26.

Volta Test reports nos. 201409356_001 dated 2015-07-31 & 201409357_001 dated 2015-08-10. Volta Test reports nos. 201409359_001 dated 2015-08-25 & 201501479_001 dated 2015-07-29.

LCIE Test reports nos. 125733-652073, 125733-652075/75-1/75-2/75-3 dated 2014-10-29.

VDE test reports nos. 5010813-4402-0012/170099-1 & 2 dated 2012-06-28.

VDE test reports nos. 5010813-4402-0001/11836-1 2, 3 & 4 dated 2010-06-01.

VDE test reports nos. 5010813-4402-0001/148759-1 dated 2011-05-11.

Volta Test report no. 201210125 _002, _004, _005 & _008 dated 2013-03-11.

Tests carried out

Type tested according to IEC 60947-2. Vibration test in according to IEC 60068-2-6 & DNV Sfc 2.4. Dry heat test in accordance with IEC 60068-2-2 & DNV Sfc 2.4. Damp heat test in accordance with IEC 60068-2-30 & DNV Sfc 2.4.

Marking of product

Manufacturer name - Type designation – Data according to IEC 60947-2 specifications - date/manufacturing code

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and 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



S.C. ENERGOPLAST S.A.

420005, BISTRITA – ROMANIA, Cart. UNIREA, HALA Nr. 12; J06/462/1995; CUI RO7842774
TEL/FAX: +40-263/228.024, TEL: +40-263/228.311, 0732/340.934; IBAN – RO16INGB0024000038578911 – ING BANK Bistrita

DECLARAȚIE DE CONFORMITATE **COD FPP05-1.0.-10**

Noi, **S.C. ENERGOPLAST S.A. Bistrița, Cartier Unirea, Hala Nr. 12**, declarăm pe proprie raspundere că produsul:

Numele produsului: **“CABLURI DE ENERGIE PENTRU TENSIUNE NOMINALĂ U₀/U PÂNĂ LA 0.6/1 KV”**

Tip: **CYY(-F) 0.6 / 1 KV;**

la care se referă această declarație, este în conformitate cu următoarele standarde:

- SR HD 604 S1/2001;
- SR CEI 60502/2006;
- SR EN 60099-14/2014;
- NP 099-04/2005;
- SR EN ISO / CEI 80079-34/2012;
- SR EN 50575/2015;

și respectă cerințele de securitate.

DATA:
08.09.2017

Director General
Mircea Iugan





EU DECLARATION OF CONFORMITY

We: Schneider Electric Industries SAS
35 rue Joseph Monier
Rueil Malmaison 92500 – France

Hereby declare under our sole responsibility that the products:

Trademark	Schneider Electric
Product, Type, Model	Harmony Electromechanical Relays (Plug-in relays) – RXG interface relays; RGZE relay sockets; RZM protection modules
List of reference and options	See Annex

are in conformity with the requirements of the following directives and conformity was checked in accordance with the following standards.

Directive	Harmonized and/or International standards
LV Directive 2014/35/EU	Electromechanical elementary relays - Part 1: General requirements EN 61810-1:2015/A1:2020/AC:2017/AC:2018 Connectors - Safety requirements and test EN 61984:2009 Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm ² up to 35 mm ² (included) EN 60999-1:2000
RoHS Directive 2011/65/EU Delegated Directive (EU) 2015/863 (RoHS 10)	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances EN IEC 63000:2018

Subject to correct installation, maintenance and use conforming to its intended purpose, to the applicable regulations and standards, to the supplier's instructions and to accepted rules of the art.

This declaration becomes invalid in the case of any modification to the products not authorized by us.

Issued at Carros, France: 15 March 2023

DocuSigned by:

Alain BERNERD

BA19724817464EF...

Alain BERNERD

Vice President

Customer Satisfaction and Quality

Industrial Automation

EU DECLARATION OF CONFORMITY

Annex - Table of product references:

RXG 1CO contact relays		RXG2CO contact relays		RGZE relay sockets
RXG11B7	RXG16BD	RXG21B7	RXG26BD	RGZE1S35M
RXG11E7	RXG16P7	RXG21E7	RXG26P7	RGZE1S48M
RXG11F7	RXG18BD	RXG21F7	RXG28BD	RGZE05P
RXG11M7	RXG18P7	RXG21M7	RXG28P7	RGZE08P
RXG11P7		RXG21P7		RGZE05E
RXG11RD		RXG21RD		RGZE08E
RXG11JD		RXG21JD		
RXG11BD		RXG21BD		RZM protection modules
RXG11ED		RXG21ED		RZM021BN
RXG11ND		RXG21ND		RZM021FP
RXG11FD		RXG21FD		RZM021RB
RXG12B7		RXG22B7		RZM031BN
RXG12E7		RXG22E7		RZM031FPD
RXG12F7		RXG22F7		RZM031RB
RXG12M7		RXG22M7		RZM040W
RXG12P7		RXG22P7		RZM041BN7
RXG12RD		RXG22RD		RZM041FU7
RXG12JD		RXG22JD		
RXG12BD		RXG22BD		
RXG12ED		RXG22ED		
RXG12ND		RXG22ND		
RXG12FD		RXG22FD		
RXG13B7		RXG23B7		
RXG13E7		RXG23E7		
RXG13F7		RXG23F7		
RXG13M7		RXG23M7		
RXG13P7		RXG23P7		
RXG13RD		RXG23RD		
RXG13JD		RXG23JD		
RXG13BD		RXG23BD		
RXG13ED		RXG23ED		
RXG13ND		RXG23ND		
RXG13FD		RXG23FD		
RXG15B7		RXG25B7		
RXG15E7		RXG25E7		
RXG15F7		RXG25F7		
RXG15M7		RXG25M7		
RXG15P7		RXG25P7		
RXG15RD		RXG25RD		
RXG15JD		RXG25JD		
RXG15BD		RXG25BD		
RXG15ED		RXG25ED		
RXG15ND		RXG25ND		
RXG15FD		RXG25FD		
RXG11K7		RXG21K7		
RXG11KD		RXG21KD		
RXG11L7		RXG21L7		
RXG12K7		RXG22K7		
RXG12KD		RXG22KD		
RXG12L7		RXG22L7		
RXG13K7		RXG23K7		
RXG13KD		RXG23KD		
RXG13L7		RXG23L7		
RXG15K7		RXG25K7		
RXG15KD		RXG25KD		
RXG15L7		RXG25L7		



TYPE APPROVAL CERTIFICATE

Certificate No:
TAA00002ZS
Revision No:
2

This is to certify:

That the Electromechanical Relays

with type designation(s)
RXG (Relays), RGZE (Sockets)

Issued to
Schneider Electric Asia Pte Ltd
Singapore, Singapore

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:

Type	Temperature	Humidity	Vibration	EMC	Enclosure
RXG (Relays)	B	B	A	A	IP20 *)
RGZE (Sockets)	B	B	A	A	IP20 *)

Issued at **Hamburg** on **2024-01-26**

This Certificate is valid until **2026-05-25**.
DNV local unit: **Certification of Materials - Singapore**

Approval Engineer: **Holger Jansen**



for **DNV**

Digitally Signed By: Papanuskas, Joannis
Location: DNV SE Hamburg, Germany

Head of Section

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 300,000 USD.



Product description

Electromechanical relays with different sockets:

RGZE1S35M	1CO	screw connector	socket with clamp, separate contact
RGZE1S48M	2CO	screw connector	socket with clamp, separate contact
RGZE05P	1CO	push-in	socket with clamp, separate contact
RGZE08P	2CO	push-in	socket with clamp, separate contact

Description:

Cover: Clear: Clear cover, blank: Front cover

Lockable test button: +LTB: Yes, -LTB: No

LED: +LED: Yes, blank: No

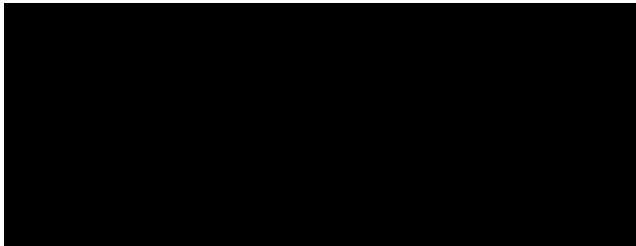
Type	Poles	Current	Description	Voltage
RXG15B7	1CO	10A	Relay, Clear	24VAC
RXG15E7	1CO	10A	Relay, Clear	48VAC
RXG15F7	1CO	10A	Relay, Clear	120VAC
RXG15M7	1CO	10A	Relay, Clear	220VAC
RXG15P7	1CO	10A	Relay, Clear	230VAC
RXG15RD	1CO	10A	Relay, Clear	6VDC
RXG15JD	1CO	10A	Relay, Clear	12VDC
RXG15BD	1CO	10A	Relay, Clear	24VDC
RXG15ED	1CO	10A	Relay, Clear	48VDC
RXG15ND	1CO	10A	Relay, Clear	60VDC
RXG15FD	1CO	10A	Relay, Clear	110VDC
RXG13B7	1CO	10A	Relay-LTB+LED	24VAC
RXG13E7	1CO	10A	Relay-LTB+LED	48VAC
RXG13F7	1CO	10A	Relay-LTB+LED	120VAC
RXG13M7	1CO	10A	Relay-LTB+LED	220VAC
RXG13P7	1CO	10A	Relay-LTB+LED	230VAC
RXG13RD	1CO	10A	Relay-LTB+LED	6VDC
RXG13JD	1CO	10A	Relay-LTB+LED	12VDC
RXG13BD	1CO	10A	Relay-LTB+LED	24VDC
RXG13ED	1CO	10A	Relay-LTB+LED	48VDC
RXG13ND	1CO	10A	Relay-LTB+LED	60VDC
RXG13FD	1CO	10A	Relay-LTB+LED	110VDC
RXG11B7	1CO	10A	Relay+LTB-LED	24VAC
RXG11E7	1CO	10A	Relay+LTB-LED	48VAC
RXG11F7	1CO	10A	Relay+LTB-LED	120VAC
RXG11M7	1CO	10A	Relay+LTB-LED	220VAC
RXG11P7	1CO	10A	Relay+LTB-LED	230VAC
RXG11RD	1CO	10A	Relay+LTB-LED	6VDC
RXG11JD	1CO	10A	Relay+LTB-LED	12VDC
RXG11BD	1CO	10A	Relay+LTB-LED	24VDC
RXG11ED	1CO	10A	Relay+LTB-LED	48VDC
RXG11ND	1CO	10A	Relay+LTB-LED	60VDC
RXG11FD	1CO	10A	Relay+LTB-LED	110VDC
RXG12B7	1CO	10A	Relay+LTB+LED	24VAC
RXG12E7	1CO	10A	Relay+LTB+LED	48VAC
RXG12F7	1CO	10A	Relay+LTB+LED	120VAC
RXG12M7	1CO	10A	Relay+LTB+LED	220VAC
RXG12P7	1CO	10A	Relay+LTB+LED	230VAC
RXG12RD	1CO	10A	Relay+LTB+LED	6VDC
RXG12JD	1CO	10A	Relay+LTB+LED	12VDC
RXG12BD	1CO	10A	Relay+LTB+LED	24VDC
RXG12ED	1CO	10A	Relay+LTB+LED	48VDC
RXG12ND	1CO	10A	Relay+LTB+LED	60VDC
RXG12FD	1CO	10A	Relay+LTB+LED	110VDC
RXG16BD	1CO	10A	Relay-LTB+LED	24VDC
RXG16P7	1CO	10A	Relay-LTB+LED	230VAC
RXG18BD	1CO	10A	Relay-LTB-LED	24VDC
RXG18P7	1CO	10A	Relay-LTB-LED	230VAC



Job Id: 262.1-039658-2
Certificate No: TAA00002ZS
Revision No: 2

Type	Poles	Current	Description	Voltage
RXG25B7	2CO	5A	Relay, Clear	24VAC
RXG25E7	2CO	5A	Relay, Clear	48VAC
RXG25F7	2CO	5A	Relay, Clear	120VAC
RXG25M7	2CO	5A	Relay, Clear	220VAC
RXG25P7	2CO	5A	Relay, Clear	230VAC
RXG25RD	2CO	5A	Relay, Clear	6VDC
RXG25JD	2CO	5A	Relay, Clear	12VDC
RXG25BD	2CO	5A	Relay, Clear	24VDC
RXG25ED	2CO	5A	Relay, Clear	48VDC
RXG25ND	2CO	5A	Relay, Clear	60VDC
RXG25FD	2CO	5A	Relay, Clear	110VDC
RXG23B7	2CO	5A	Relay-LTB+LED	24VAC
RXG23E7	2CO	5A	Relay-LTB+LED	48VAC
RXG23F7	2CO	5A	Relay-LTB+LED	120VAC
RXG23M7	2CO	5A	Relay-LTB+LED	220VAC
RXG23P7	2CO	5A	Relay-LTB+LED	230VAC
RXG23RD	2CO	5A	Relay-LTB+LED	6VDC
RXG23JD	2CO	5A	Relay-LTB+LED	12VDC
RXG23BD	2CO	5A	Relay-LTB+LED	24VDC
RXG23ED	2CO	5A	Relay-LTB+LED	48VDC
RXG23ND	2CO	5A	Relay-LTB+LED	60VDC
RXG23FD	2CO	5A	Relay-LTB+LED	110VDC
RXG21B7	2CO	5A	Relay+LTB-LED	24VAC
RXG21E7	2CO	5A	Relay+LTB-LED	48VAC
RXG21F7	2CO	5A	Relay+LTB-LED	120VAC
RXG21M7	2CO	5A	Relay+LTB-LED	220VAC
RXG21P7	2CO	5A	Relay+LTB-LED	230VAC
RXG21RD	2CO	5A	Relay+LTB-LED	6VDC
RXG21JD	2CO	5A	Relay+LTB-LED	12VDC
RXG21BD	2CO	5A	Relay+LTB-LED	24VDC
RXG21ED	2CO	5A	Relay+LTB-LED	48VDC
RXG21ND	2CO	5A	Relay+LTB-LED	60VDC
RXG21FD	2CO	5A	Relay+LTB-LED	110VDC
RXG22B7	2CO	5A	Relay+LTB+LED	24VAC
RXG22E7	2CO	5A	Relay+LTB+LED	48VAC
RXG22F7	2CO	5A	Relay+LTB+LED	120VAC
RXG22M7	2CO	5A	Relay+LTB+LED	220VAC
RXG22P7	2CO	5A	Relay+LTB+LED	230VAC
RXG22RD	2CO	5A	Relay+LTB+LED	6VDC
RXG22JD	2CO	5A	Relay+LTB+LED	12VDC
RXG22BD	2CO	5A	Relay+LTB+LED	24VDC
RXG22ED	2CO	5A	Relay+LTB+LED	48VDC
RXG22ND	2CO	5A	Relay+LTB+LED	60VDC
RXG22FD	2CO	5A	Relay+LTB+LED	110VDC
RXG26BD	2CO	10A	Relay-LTB+LED	24VDC
RXG26P7	2CO	10A	Relay-LTB+LED	230VAC
RXG28BD	2CO	10A	Relay-LTB-LED	24VDC
RXG28P7	2CO	10A	Relay-LTB-LED	230VAC

Manufacturing Place



Application/Limitation

The Type Approval covers hardware listed under Product description. 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.

Type Approval documentation

Title	Drw No	Rev
Product Identification Relays		
Product References		
Product Identification Socket		
Product Test Plan Summary		
Product Test Plan		
Contact Resistance	EAV9457007	00
Electrical Endurance - D	EAV9457009-	02
Release Value	EAV9457017	01
Release_Bounce Time	EAV9457005	00
Operate Value	EAV9457016	01
Electrical Endurance	EAV9457008-	02
Operate_Bounce Time	EAV9457004	00
Mechanical Endurance	EAV9457001	02
Heating	EAV9457011	01
Dry Heat Test Report		
Enclosure (IP20) Test Report		
Inclination Test Report		
Insulation Resistance Test Report		
Electrical Power Supply Failure Test Report		
Cold Test Report		
High Voltage Test Report		
Damp Heat Test Report		
Power Supplies Variation Test Report		
Vibration Test Report (attachment)		
Vibration Test Report		
Flammability Material Declaration		
Insulation Resistance Test Report	BQT5991327-00	
High Voltage Test Report	BQT5991326-00	

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021

Marking of product

The products to be marked with

- manufacturer name
- model name
- serial number



Job Id: **262.1-039658-2**
Certificate No: **TAA00002ZS**
Revision No: **2**

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

EU – Declaration of Conformity

Document number / Month.Year: NHA4191005.02 / 04.2016

We: Schneider Electric Automation GmbH
Subsidiary of Schneider Electric SE (FR-92500 Rueil-Malmaison)
 Schneiderplatz 1
 97828 Marktheidenfeld
 Germany

Hereby declare in our sole responsibility as manufacturer that the product(s):

Trademark:	Schneider Electric 
Product, Type, Function:	Programmable Controllers - Accessory
Models:	TM3XREC1, TM3XTRA1, TM3XTYS4, TM4ES4, TM4PDPS1, TMC2AI2, TMC2AQ2C, TMC2AQ2V, TMC2CONV01, TMC2HOIS01, TMC2PACK01, TMC2SL1, TMC2TI2, TMC4AI2, TMC4AQ2, TMC4HOIS01, TMC4PACK01, TMC4TI2
Serial Number:	00YYWWXXXXX <small>00 = PLANT CODE, YY = Years, WW = Week, XXXXX = 0001...9999</small>

are in conformity with the requirements of the following directives and conformity was checked in accordance with the following standards:

Directive	Harmonized Standard
DIRECTIVE 2014/35/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits	EN 61131-2:2007 Programmable controllers -- Part 2: Equipment requirements and tests
DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast)	EN 61131-2:2007 Programmable controllers -- Part 2: Equipment requirements and tests

It is important that the component is subject to correct installation, maintenance and use conforming to its intended purpose, to the applicable regulations and standards, to the supplier's instructions, user manual and to the accepted rules of the art.

Issued at: Marktheidenfeld - Germany, 20th April 2016



i.A. Michael Schweizer
 Machine Solutions Certification Manager

Schneider Electric Automation GmbH
 Schneiderplatz 1
 97828 Marktheidenfeld
 Telefon: 09391 606-0



Design Appraisal Document

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Date
19 June 2018

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**THE LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 2017
ISSUED TO: SCHNEIDER ELECTRIC AUTOMATION GMBH
FOR: PROGRAMMABLE LOGIC CONTROLLER WITH ACCESSORIES
TYPES: MODICON TM241 / TM251
TYPE APPROVAL CERTIFICATE NO. 15/20042 (E1)**

This Design Appraisal Document supersedes and cancels the Design Appraisal Document No. HTS/ETS 31740-15, Issue no. 0, dated 27 May 2015

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register's Type Approval System Procedure TA14 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Appendix 2502TA	Application Checklist	13.07.2017
2502	Request for Marine Services – Type Approval	05.09.2017
W04931306	Production Quality Assessment Report – Batam, Indonesia	15.09.2017
Unnumbered	Product Family Assimilation (M241 controller and TMC4 modules)	14.03.2018
E38 000	Firmware revision list (e.g. V4.0.2.11) – Embedded Firmware for M241/251	05.02.2015
Unnumbered	Firmware release records - M251 V4.0.5.11	25.11.2016
Unnumbered	Asbestos Free Declaration	03.02.2015
DE06/3238	ISO9001:2008 Certificate, issued by SGS	18.08.2015
195538-UK	ISO9001:2015 Certificate, issued by BV	26.07.2017
DIA3ED2140107EN	Catalogue and technical data – Modicon M241	06.2017
DIA3ED2140108EN	Catalogue and technical data – Modicon M251	06.2017
EIO0000001426.04	Hardware Guide – Transmitter and Receiver Modules – TM3	04.2017
EIO0000001456.06	Hardware Guide – Logic Controller – M241	04.2017
EIO0000001486.04	Hardware Guide – Logic Controller – M251	04.2017
EIO0000001776.04	Hardware Guide – Cartridges – TMC4	04.2017

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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APPROVAL DOCUMENTATION (continued)

EIO0000001796.03	Hardware Guide – Expansion Modules – TM4	10.2016
201304-091_V1.1	Overview of Tests – TM251MESC	21.11.2013
201304-092_V1.1	Overview of Tests – TM251MESE	21.11.2013
201304-093_V1.0	Overview of Tests – TM241CE40R, TMC4AI2, TMC4AQ2	11.10.2010
201304-094_V1.0	Overview of Tests – TM4ES4, TM241C40R, TMC4AI2, TMC4AQ2	11.10.2010
201304-095_V1.1	Overview of Tests – TM241CEC24R, TMC4TI2	21.11.2013
201304-096_V1.1	Overview of Tests – TM241C24R, TM4ES4, TMC4TI2	21.11.2013
Unnumbered	Test proposal with mapping of components for test setup	06.09.2017
201304-431	Configuration description – Test setup C1	17.01.2013
201304-432	Configuration description – Test setup C2	17.01.2013
201304-433	Configuration description – Test setup C3	13.01.2014
201304-434	Configuration description – Test setup C4	13.01.2014
201304-435	Configuration description – Test setup C5	12.01.2014
201304-436	Configuration description – Test setup C6	12.01.2014
201501-010_V1.0	Overview of Tests – TM3XTRA1, TM3XREC1, TM4PDPS1	28.01.2015
Form 2571	Application for Type Approval from Lloyd's Register EMEA	13.12.2013
Form 2502	Request for Marine Services	22.01.2014
Form 2502	Request for Marine Service	21.11.2014
W030613170	Product Quality Assessment Form	31.03.2015
1000 Rev 1.0	Firmware Design Development Process	23.06.2014
M258 - MKT 03a00	Entity: OEM Control	Nov. 2012
Unnumbered	Project Quality Plan for Software	15.12.2013
02612	First Unit Inspection	01.04.2014
M2xx-Qua00_V.5	Project Quality Plan for Software	15.12.2013
M241-251_V.1	Quality control – Software and Hardware	16.06.2015
ReleaseNotes.EN	“SoMachine” Release Note (Application Software Builder) V.4.3	21.06.2017

TEST REPORTS

201304-041	Test Report – High Frequency Immunity validation – TM251MESC	17.01.2014
201304-051	Test Report – Electrical safety validation – TM251MESC	17.01.2014
201304-061	Test Report – Mechanical validation – TM251MESC	17.01.2014
201304-071	Test Report – Climatic validation – TM251MESC	17.01.2014
201304-081	Test Report – Low Frequency Immunity validation – TM251MESC	17.01.2014
201304-441	Test Report – Electromagnetic Emission validation – TM251MESC	10.01.2014
201304-042	Test Report – High Frequency Immunity validation – TM251MESE	17.01.2014

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TEST REPORTS (continued)

201304-052	Test Report – Electrical safety validation – TM251MESE	17.01.2014
201304-062	Test Report – Mechanical validation – TM251MESE	17.01.2014
201304-072	Test Report – Climatic validation – TM251MESE	17.01.2014
201304-082	Test Report – Low Frequency Immunity validation – TM251MESE	17.01.2014
201304-442	Test Report – Electromagnetic Emission validation – TM251MESE	05.11.2014
201304-043	Test Report – High Frequency Immunity validation – TM241CE40R, TMC4AI2, TMCAQ2	13.01.2014
201304-053	Test Report – Electrical safety validation – TM241CE40R, TMC4AI2, TMCAQ2	13.01.2014
201304-063	Test Report – Mechanical validation – TM241CE40R, TMC4AI2, TMC4AQ2	27.02.2018
201304-073	Test Report – Climatic validation – TM241CE40R, TMC4AI2, TMC4AQ2	13.01.2014
201304-083	Test Report – Low Frequency Immunity validation – TM241CE40R, TMC4AI2, TMC4AQ2	13.01.2014
201304-443	Test Report – Electromagnetic Emission validation – TM241CE40R, TMC4AI2, TMC4AQ2	13.01.2014
201304-044	Test Report – High Frequency Immunity validation – TM241C40R, TM4ES4, TMC4AI2, TMC4AQ2	13.01.2014
201304-054	Test Report – Electrical Safety validation – TM241C40R, TM4ES4, TMC4AI2, TMC4AQ2	13.01.2013
201304-064	Test Report – Mechanical validation – TM241C40R, TM4ES4, TMC4AI2, TMC4AQ2	27.02.2018
201304-074	Test Report – Climatic validation – TM241C40R, TM4ES4, TMC4AI2, TMC4AQ2	13.01.2013
201304-084	Test Report – Low Frequency Immunity validation – TM241C40R, TM4ES4, TMC4AI2, TMC4AQ2	13.01.2014
201304-444	Test Report – Electromagnetic Emission validation – TM241C40R, TM4ES4, TMC4AI2, TMC4AQ2	13.01.2014
201304-045	Test Report – High Frequency Immunity validation – TM241CEC24R, TMC4TI2	12.01.2014
201304-055	Test Report – Electrical safety validation – TM241CEC24R, TMC4TI2	12.01.2014
201304-065	Test Report – Mechanical validation – TM241CEC24R, TMC4TI2	12.01.2014
201304-075	Test Report – Climatic validation – TM241CEC24R, TMC4TI2	12.01.2014
201304-085	Test Report – Low Frequency Immunity validation – TM241CEC24R, TMC4TI2	12.01.2014

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TEST REPORTS (continued)

201304-445	Test Report – Electromagnetic Emission validation – TM241CEC24R, TMC4TI2	12.01.2014
201304-046	Test Report – High Frequency Immunity validation – TM241C24R, TM4ES4, TMC4TI2	12.01.2014
201304-056	Test Report – Electrical safety validation – TM241C24R, TM4ES4, TMC4TI2	12.01.2014
201304-066	Test Report – Mechanical validation – TM241C24R, TM4ES4, TMC4TI2	12.01.2014
201304-076	Test Report – Climatic validation – TM241C24R, TM4ES4, TMC4TI2	12.01.2014
201304-086	Test Report – Low Frequency Immunity validation – TM241C24R, TM4ES4, TMC4TI2	12.01.2014
201304-446	Test Report – Electromagnetic Emission validation – TM241C24R, TM4ES4, TMC4TI2	12.01.2014
C13-381-WT	Test Report – M2xx Step2 PLC Module	10.01.2014
SDEC13DE0069VNTY	Test Report – M2xx Step2 PLC Module, issued by BV	25.12.2013
T251-0918/13	Test Report – EMC – TM4PDPS1, TM3XTRA1, TM3XREC1	04.03.2014
T223-0081/14	Test Report – IEC 61010-2-201	27.03.2014
201301-421	Test Report - Configuration description, TM241CEC24U	22.07.2013
201301-041	Test Report - High frequency immunity validation, TM241CEC24U	22.07.2013
201301-051	Test Report - Electrical safety validation, TM241CEC24U	22.08.2013
201301-061	Test Report - Mechanical validation, TM241CEC24U	22.07.2013
201301-071	Test Report - Climatic validation, TM241CEC24U	22.07.2013
201301-081	Test Report - Low frequent immunity validation, TM241CEC24U	22.07.2013
201301-441	Test Report - Electromagnetic emission validation, TM241CEC24U	22.07.2013
201301-432	Test Report - Configuration description, TM241CEC24T	08.07.2013
201301-042	Test Report - High frequency immunity validation, TM241CEC24T	15.07.2013
201301-052	Test Report - Electrical safety validation, TM241CEC24T	22.08.2013
201301-052 I.E.1.1	Test Report - Electrical safety validation, TM241CEC24T	26.08.2014
201301-062	Test Report - Mechanical validation, TM241CEC24T	30.07.2013
201301-072	Test Report - Climatic validation, TM241CEC24T	05.08.2013
201301-082	Test Report - Low frequent immunity validation, TM241CEC24T	26.07.2013
201301-442	Test Report - Electromagnetic emission validation, TM241CEC24T	19.07.2013
201301-433	Test Report - Configuration description, TM241CE40U	29.07.2013
201301-443	Test Report - High frequency immunity validation, TM241CE40U	25.07.2013
201301-053	Test Report - Electrical safety validation, TM241CE40U	22.08.2013
201301-053 I.E.1.1	Test Report - Electrical safety validation, TM241CE40U	26.08.2014

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TEST REPORTS (continued)

201301-063	Test Report - Mechanical validation, TM241CE40U	26.07.2013
201301-073	Test Report - Climatic validation, TM241CE40U	29.07.2013
201301-083	Test Report - Low frequent immunity validation, TM241CE40U	26.07.2013
201301-443	Test Report - Electromagnetic emission validation, TM241CE40U	25.07.2013
201301-434	Test Report - Configuration description, TM241CE40T	23.07.2013
201301-044	Test Report - High frequency immunity validation, TM241CE40T	23.07.2013
201301-054	Test Report - Electrical safety validation, TM241CE40T	21.08.2013
201301-054 I.E. 1.1	Test Report - Electrical safety validation, TM241CE40T	21.08.2014
201301-064	Test Report - Mechanical validation, TM241CE40T	23.07.2013
201301-074	Test Report - Climatic validation, TM241CE40T	25.07.2013
201301-084	Test Report - Low frequent immunity validation, TM241CE40T	23.07.2013
201301-444	Test Report - Electromagnetic emission validation, TM241CE40T	25.07.2013
201301-435	Test Report - Configuration description, TM241C24T	05.08.2013
201301-045	Test Report - High frequency immunity validation, TM241C24T	05.08.2013
201301-055	Test Report - Electrical safety validation, TM241C24T	25.08.2013
201301-055 I.E. 1.1	Test Report - Electrical safety validation, TM241C24T	26.08.2014
201301-065	Test Report - Mechanical validation, TM241C24T	23.08.2013
201301-075	Test Report - Climatic validation, TM241C24T	05.08.2013
201301-085	Test Report - Low frequent immunity validation, TM241C24T	05.08.2013
201301-445	Test Report - Electromagnetic emission validation, TM241C24T	05.08.2013
201301-436	Test Report - Configuration description, TM241C24T	09.08.2013
201301-046	Test Report - High frequency immunity validation, TM241C24T	09.08.2013
201301-056	Test Report - Electrical safety validation, TM241C24T	22.08.2013
201301-056 I.E. 1.1	Test Report - Electrical safety validation, TM241C24T	26.08.2014
201301-066	Test Report - Mechanical validation, TM241C24T	23.08.2013
201301-076	Test Report - Climatic validation, TM241C24T	09.08.2013
201301-086	Test Report - Low frequent immunity validation, TM241C24T	09.08.2013
201301-446	Test Report - Electromagnetic emission validation, TM241C24T	09.08.2013

DRAWINGS

HRB5436802_A71_03	Receiver PCBA for TM3XREC1 – Assembly Drawing	05.09.2017
HRB5436803_A72_03	Receiver PCBA for TM3XREC1 – Schematic	05.09.2017
TM3XREC1.xls	Part List – TMEXREC1	06.09.2017
HRB5431102_A70_01	Transmitter PCBA for TM3XTRA1 – Assembly Drawing bottom	05.09.2017

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DRAWINGS (continued)

HRB5431103_A71_01 Transmitter PCBA for TM3XTRA1 – Assembly Drawing top	05.09.2017
HRB5431104_A72_01 Transmitter PCBA for TM3XTRA1 – Schematic	05.09.2017
TM3XTRA1.xls Part List – TM3XTRA1	06.09.2017
S1B9578403_A72_05 M2XX Ethernet left expansion PCBA – Schematic	05.09.2017
S1B9578404_A70_05 M2XX Ethernet left expansion PCBA – Assembly Drawing bottom	05.09.2017
S1B9578405_A71_05 M2XX Ethernet left expansion PCBA – Assembly Drawing top	05.09.2017
TM4ES4.xls Part List – TM4ES4	06.09.2017
HRB5444802_A70_01 Profibus PCBA for TM4PDPS1 – Assembly Drawing bottom	05.09.2017
HRB5444803_A71_01 Profibus PCBA for TM4PDPS1 – Assembly Drawing top	05.09.2017
HRB5444804_A72_01 Profibus PCBA for TM4PDPS1 – Schematic	05.09.2017
TM4PDPS1.xls Part List – TM4PDPS1	06.09.2017
EAV1028102_A70_02 PCBA Jialong Brick24 IO Relay Board – Assembly Drawing bottom	05.09.2017
EAV1028103_A71_02 PCBA Jialong Brick24 IO Relay Board – Assembly Drawing top	05.09.2017
EAV1028104_A72_03 PCBA Jialong Brick24 IO Relay Board – Schematic	05.09.2017
TM241C24R.xls Part List – TM241C24R	06.09.2017
EAV1028202_A70_02 PCBA Jialong Brick40 IO Relay Board – Assembly Drawing bottom	05.09.2017
EAV1028203_A71_02 PCBA Jialong Brick24 IO Relay Board – Assembly Drawing top	05.09.2017
EAV1028204_A72_03 PCBA Jialong Brick24 IO Relay Board – Schematic	06.09.2017
TM241C40R.xls Part List – TM241C40R	06.09.2017
TM241CE24R.xls Part List – TM241CE24R	06.09.2017
TM241CE40R.xls Part List – TM241CE40R	06.09.2017
EAV1331002_A70_02 PCBA JL Brick24 IO Relay CAN Board – Assembly Drawing bottom	05.09.2017
EAV1331003_A71_02 PCBA JL Brick24 IO Relay CAN Board – Assembly Drawing top	05.09.2017
EAV1331004_A72_03 PCBA JL Brick24 IO Relay CAN Board – Schematic	05.09.2017
TM241CEC24R.xls Part List – TM241CEC24R	06.09.2017
HRB2912802_A70_02 M251 CPU with CANopen Board PCBA – Assembly Drawing bottom	05.09.2017
HRB2912803_A71_02 M251 CPU with CANopen Board PCBA – Assembly Drawing top	05.09.2017
HRB2912804_A72_04 M251 CPU with CANopen Board PCBA – Schematic	05.09.2017
TM251MESC.xls Part List – TM251MESC	06.09.2017
HRB2912702_A70_03 M251 CPU Board PCBA – Assembly Drawing bottom	05.09.2017
HRB2912703_A71_03 M251 CPU Board PCBA – Assembly Drawing top	05.09.2017
HRB2912704_A72_03 M251 CPU Board PCBA – Schematic	05.09.2017
TM251MESE.xls Part List – TM251MESE	06.09.2017
HRB3347702_A70_01 PCBA Cartridge TM3CAMI2HT 2AI Board – Assembly Drawing bottom	05.09.2017
HRB3347703_A71_01 PCBA Cartridge TM3CAMI2HT 2AI Board – Assembly Drawing top	05.09.2017

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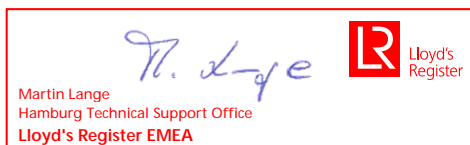
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DRAWINGS (continued)

HRB3347704_A72_02 PCBA Cartridge TM3CAMI2HT 2AI Board – Schematic	05.09.2017
TMC4AI2.xls Part List – TMC4AI2	06.09.2017
HRB3348702_A70_01 PCBA Cartridge TM3CAMO2HT 2AO Board – Assembly Drawing bottom	05.09.2017
HRB3348703_A71_01 PCBA Cartridge TM3CAMI2HT 2AI Board – Assembly Drawing top	05.09.2017
HRB3348704_A72_02 PCBA Cartridge TM3CAMI2HT 2AI Board – Schematic	06.09.2017
TMC4AQ2.xls Part List – TMC4AQ2	06.09.2017
EAV3586502_A70_00 Cartridge TMC4HOIST01 2AI Board – Assembly Drawing bottom	05.09.2017
EAV3586503_A71_00 Cartridge TMC4HOIST01 2AI Board – Assembly Drawing top	05.09.2017
EAV3586504_A72_00 Cartridge TMC4HOIST01 2AI Board – Schematic	05.09.2017
TMC4HOIS01.xls Part List – TMC4HOIS01	06.09.2017
EAV3586602_A70_00 Cartridge TMC4PACK01 2AI Board – Assembly Drawing bottom	05.09.2017
EAV3586603_A71_00 Cartridge TMC4PACK01 2AI Board – Assembly Drawing top	05.09.2017
EAV3586604_A72_00 Cartridge TMC4PACK01 2AI Board – Schematic	05.09.2017
TMC4PACK01.xls Part List – TMC4PACK01	06.09.2017
HRB3348302_A70_01 PCBA Cartridge TM3CAMI2LT RTD TC Board – Assembly Drawing bottom	05.09.2017
HRB3348303_A71_01 PCBA Cartridge TM3CAMI2LT RTD TC Board – Assembly Drawing top	05.09.2017
HRB3348304_A72_01 PCBA Cartridge TM3CAMI2LT RTD TC Board – Schematic	05.09.2017
TMC4TI2.xls Part List – TMC4TI2	06.09.2017



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Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.

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EU – Declaration of Conformity

Document number / Month.Year: NHA4191002.03 / 10.2017

We: Schneider Electric Automation GmbH
Subsidiary of Schneider Electric SE (FR-92500 Rueil-Malmaison)

Schneiderplatz 1
 97828 Marktheidenfeld
 Germany

Hereby declare that this declaration of conformity is issued under our sole responsibility as manufacturer and that the product(s):

Trademark:	Schneider Electric 
Product, Type, Function:	Modicon M241 Programmable Logic Controller
Models:	TM241C24R, TM241C24T, TM241C24U, TM241C40R, TM241C40T, TM241C40U, TM241CE24R, TM241CE24T, TM241CE24U, TM241CE40R, TM241CE40T, TM241CE40U, TM241CEC24R, TM241CEC24T, TM241CEC24U
Serial Number:	00YYWWXXXXXXXX <small>00 = PLANT CODE, YY = Years, WW = Week, XXXXXXXX = 0000001...9999999</small>

is/are in conformity with the requirements of the following directives and conformity was checked in accordance with the following standards:

Directive	Harmonized Standard
DIRECTIVE 2014/35/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits	EN 61131-2:2007 Programmable controllers -- Part 2: Equipment requirements and tests
DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast)	EN 61131-2:2007 Programmable controllers -- Part 2: Equipment requirements and tests

It is important that the component is subject to correct installation, maintenance and use conforming to its intended purpose, to the applicable regulations and standards, to the supplier's instructions, user manual and to the accepted rules of the art.

Issued at: Marktheidenfeld - Germany, 12th October 2017



i.A. Michael Schweizer
 Machine Solutions Certification Manager

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