



UNITED KINGDOM CONFORMITY ASSESSMENT

1 **UK TYPE EXAMINATION CERTIFICATE**

2 Component intended for use in a Product or Protective System for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Certificate Number: **CSAE 22UKEX1141U** Issue: **0**

4 Product: **Type STS 2,5** ; STTBS 2,5 (-PV)"; STS 4"* ,Type STS 2,5* .-PE; STTBS 2,5-
PE and STS 4* .-PE**

5 Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**

6 Address: **Flachsmarkstraße 8
Blomberg
North Rhine-Westphalia
D-32825
Germany**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN IEC 60079-7:2015+ A1:2018

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

10 The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as the basis for certification of an equipment or protective system. Any limitations are listed in Section 15.

11 This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall be in accordance with Regulation 41 and include the following:



**II 2 G
Ex eb IIC Gb
Ta = -60°C to +110°C**

Name: Michelle Halliwell
Title: Director of Operations



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SCHEDULE

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CSAE 22UKEX1141U

Issue 0

13 DESCRIPTION OF PRODUCT

Feedthrough terminal block, types STS 2,5**; STTBS 2,5 (-pv)* and STS 4**, and protective conductor terminal blocks, types STS 2,5*.-PE; STTBS 2,5-PE and STS 4"-.PE, consists of an insulation housing (polyamide PA 6.6), current bar and spring-cage.

The terminal blocks serves to connect copper conductors in terminal compartments designed to Increased Safety "eb" and Protection by Enclosure "ta, tb, tc".

Technical Data

Type Designation		STS 2.5**	STS 2.5-QUATTRO**	STS 2.5-TWIN*	STTBS 2.5(-PV)*	STS 2.5*-PE STTBS 2.5 PE
Rated insulation voltage	[V]	500	500	500	400	-
Rated voltage	[V]	550	550	550	440	-
Rated current (Temperature rise 40K, cross section 2.5mm ²)	[A]	20.5	20.5	21	19.5	-
Rated current (Temperature rise 40K, cross section 4mm ²)	[A]	26.5	25	25.5	23.5	-
Contact resistance	[mΩ]	1.04	1.25	1.08	1.25	-
Rated cross section (mm ²) (AWG)	(mm ²) (AWG)	2.5				
Connecting capacity	(mm ²)	0.08 – 4 rigid 0.08 – 2.5 flexible				
Number of conductors per terminal connection		1 conductor per clamping unit				
Service temperature	[°C]	-60°C to +110°C				

Type Designation		STS 4*	STS 4- QUATTRO*	STS 4-TWIN*	STTBS 2.5(-PV)*
Rated insulation voltage	[V]	500	500	500	-
Rated voltage	[V]	550	550	550	-



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Type Designation		STS 4*	STS 4- QUATTRO*	STS 4-TWIN*	STTBS 2.5(-PV)*
Rated current (Temperature rise 40K, cross section 2.5mm ²)	[A]	28.5	28.5	30	-
Rated current (Temperature rise 40K, cross section 4mm ²)	[A]	34.5	35	33	-
Contact resistance	[mΩ]	0.63	0.84	0.75	-
Rated cross section (mm ²) (AWG)	(mm ²) (AWG)	4			
Connecting capacity	(mm ²)	0.08 – 6 rigid 0.08 – 4 flexible			
Number of conductors per terminal connection		1 conductor per clamping unit			
Service temperature	[°C]	-60°C to +110°C			

Nomenclature

a)	b)	c)	d)
STS	2.5		*
STS	2.5	-TWIN	*
STS	2.5	-QUATTRO	*
STS	2.5	*	-PE
STTBS	2.5		*
STTBS	2.5	-PV	
STTBS	2.5		-PE
STS	4		*
STS	4	-TWIN	*
STS	4	-QUATTRO	*
STS	4	*	-PE

Legend		
a)	STS STTBS	Terminal Type, one level terminal block Terminal Type, double-level terminal block
e)	2.5/4	Rated cross-section
f)	-TWIN -QUATTRO -PV	3 connections 4 connections With equipotential bonder
g)	-PE *	Grounding, with snap-on grounding foot all colours, e.g. BK, RD, OG, YE, GN, WH, BU (the standard type is grey)



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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	31 May 2022	R80113988A	The release of the prime certificate.

15 SCHEDULE OF LIMITATIONS

- 15.1 The terminals shall be mounted in an enclosure that meets the requirements of an approved type of protection as specified in EN 60079-0, section 1.
- 15.2 When installing the terminals in an enclosure designed to Increased Safety "eb" type of protection as specified in EN 60079-7, the clearance and creepage distances shown in table 2 shall be duly considered.
- 15.3 If accessories are used, the instructions for installation provided by the manufacturer shall be observed.
- 15.4 The use of this component requires a further assessment by an ExCB.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.

17 PRODUCTION CONTROL

- 17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders.
- 17.2 Each manufactured sample shall be subjected to a routine test in the form of dielectric test in accordance with EN 60079-7 clause 7.1 and clause section 6.1.



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Certificate Annexe

Certificate Number: CSAE 22UKEX1141U
 Product: Type STS 2,5**; STTBS 2,5 (-PV)"; STS 4", Type STS 2,5*.-PE;
 STTBS 2,5-PE and STS 4*.-PE
 Manufacturer: PHOENIX CONTACT GmbH & Co. KG

Issue 0

Drawing	Sheets	Rev.	Date	Title
Description STS 2.5	1 to 3	02	03-Nov-21	Description STS 2.5
Description STS 2.5 - PE	1 to 3	02	03-Nov-21	Description STS 2.5 PE
Description STS 4	1 to 3	02	03-Nov-21	Description STS 4
Description STS 4 PE	1 to 3	02	03-Nov-21	Description STS 4 PE
01285837	1 to 6	00	27-Jul-21	Overview and list of material
Information sheet STS 2.5	1 to 7	02	10-May-07	Information sheet STS 2.5
00303305	1 of 1	04	27-Apr-21	STS2.5
00303306	1 of 1	04	16-Mar-21	STS2.5
Information sheet STS 2.5- PE	1 to 3	02	10-May-07	Information sheet STS 2.5- PE
00303309	1 of 1	03	18-Oct-18	STS 2.5-PE
00303310	1 of 1	04	16-Mar-21	STS 2.5-PE
Information sheet STS 2.5- QUATTRO	1 to 3	02	10-May-07	Information sheet STS 2.5- QUATTRO
00286975	1 of 1	03	18-Oct-18	STS 2.5-QUATTRO
00286976	1 of 1	03	16-Mar-21	STS 2.5-QUATTRO
Information sheet STS 2.5 QUATTRO-PE	1 to 3	02	10-May-07	Information sheet STS 2.5 QUATTRO- PE
00286977	1 of 1	03	18-Oct-18	STS 2.5-QUATTRO- PE
00286978	1 of 1	03	16-Mar-21	STS 2.5-QUATTRO-PE
Information sheet STS 2.5 TWIN	1 to 3	02	10-May-07	Information sheet STS 2.5 TWIN
00287181	1 of 1	04	27-Apr-21	STS 2.5 TWIN
00287182	1 of 1	04	16-Mar-21	STS 2.5 TWIN
Information sheet STS 2.5 TWIN- PE	1 to 3	02	10-May-07	Information sheet STS 2.5 TWIN-PE
00287183	1 of 1	03	18-Oct-18	STS 2.5 TWIN-PE
00287184	1 of 1	04	16-Mar-21	STS 2.5 TWIN-PE
Information sheet STTBS 2.5	1 to 3	02	10-May-07	Information sheet STTBS 2.5
Information sheet STTBS 2.5-PV	1 to 3	02	10-May-07	Information sheet STTBS 2.5-PV
00303397	1 of 1	04	27-Apr-21	STTBS 2.5 (-PV)
00303398	1 of 1	04	16-Mar-21	STTBS 2.5 (-PV)
Information sheet STTBS 2.5-PE	1 to 3	02	10-May-07	Information sheet STTBS 2.5-PE
00303447	1 of 1	03	18-Oct-18	STTBS 2.5 -PE
00303448	1 of 1	04	16-Mar-21	STTBS 2.5 -PE
Information sheet STS 4	1 to 3	02	10-May-07	Information sheet STS 4
00303340	1 of 1	04	27-Apr-21	STS 4
00303341	1 of 1	04	16-Mar-21	STS 4
Information sheet STS 4-PE	1 to 3	02	10-May-07	Information sheet STS 4-PE



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 Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**

Drawing	Sheets	Rev.	Date	Title
00303373	1 of 1	03	18-Oct-18	STS 4-PE
00303374	1 of 1	04	16-Mar-21	STS 4-PE
Information sheet STS 4-QUATTRO	1 to 3	02	10-May-07	Information sheet STS 4-QUATTRO
00289051	1 of 1	04	18-Oct-18	STS 4-QUATTRO
00289052	1 of 1	03	16-Mar-21	STS 4-QUATTRO
Information sheet STS 4-QUATTRO-PE	1 to 3	02	10-May-07	Information sheet STS 4-QUATTRO-PE
00289053	1 of 1	04	18-Oct-18	STS 4-QUATTRO-PE
00289054	1 of 1	03	16-Mar-21	STS 4-QUATTRO-PE
Information sheet STS 4-TWIN	1 to 3	02	10-May-07	Information sheet STS 4-TWIN
00289055	1 of 1	04	27-Apr-21	STS 4-TWIN
00289056	1 of 1	04	16-Mar-21	STS 4-TWIN
Information sheet STS 4-TWIN-PE	1 to 3	02	10-May-07	Information sheet STS 4-TWIN-PE
00289057	1 of 1	04	18-Oct-18	STS 4-TWIN-PE
00289058	1 of 1	04	16-Mar-21	STS 4-TWIN-PE

Drawing	Sheets	Rev.	Date (Stamp)	Title
MNR_01130522	1 to 2	00	16-May-22	STS 2.5 Instructions
MNR_01130523	1 to 2	00	16-May-22	STS 2.5 PE Instructions
MNR_01130524	1 to 2	00	16-May-22	STS 2.5 QUATTRO Instructions
MNR_01130526	1 to 2	00	30-May-22	STS 2.5 QUATTRO-PE Instructions
MNR_01130527	1 to 2	00	16-May-22	STS 2.5 TWIN Instructions
MNR_01130530	1 to 2	00	16-May-22	STS 2.5 TWIN-PE Instructions
MNR_01130531	1 to 2	00	16-May-22	STS 4 Instructions
MNR_01130533	1 to 2	00	16-May-22	STS 4-PE Instructions
MNR_01130534	1 to 2	00	16-May-22	STS 4-QUATTRO Instructions
MNR_01130535	1 to 2	00	16-May-22	STS 4-QUATTRO-PE Instructions
MNR_01130536	1 to 2	00	16-May-22	STS 4-TWIN Instructions
MNR_01130537	1 to 2	00	16-May-22	STS 4-TWIN-PE Instructions
MNR_01130538	1 to 2	00	16-May-22	STTBS 2.5 Instructions
MNR_01130541	1 to 2	00	16-May-22	STTBS 2.5-PE Instructions
MNR_01130542	1 to 2	00	16-May-22	STTBS 2.5-PV Instructions
01145853	1 of 1	02	24-May-22	Ex Marking drawing



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