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UNITED KINGDOM CONFORMITY ASSESSMENT

UK TYPE EXAMINATION CERTIFICATE

2

Product or Protective System Intended for use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Type Examination Certificate No.: TÜV 21 UKEX 7015 X Issue: 00

4 Product: Solenoid coils type
VACC-S13-18-K4-...*1-...*2ME

5 Manufacturer: Festo SE & Co. KG

6 Address: Ruiter Straße 82
73734 Esslingen, Germany

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

8 TÜV Rheinland UK Ltd, Approved Body number 2571, 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 report 557 / UKEx 7015.00 / 21.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 EN 60079-7:2015 + A1:2018 EN 60079-18:2015 + A1:2017
EN 60079-31:2014

Except in respect of those requirements listed at section 18 of the schedule to this certificate.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.

11 This 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 include the following:



II 2G Ex eb mb IIC T* Gb



II 2D Ex tb IIIC T*°C Db

This certificate and its schedules may only be reproduced in its entirety and without change.

TÜV Rheinland UK Ltd

Solihull, 2022-05-12


Dipl.-Ing. Klauspeter Graffi

This Type Examination Certificate without signature shall not be valid. Alterations are subject to approval by
TÜV Rheinland UK Ltd, 1011 Stratford Road, Shirley, Solihull, B90 4BN, Tel. +44 (0) 121 7969400
A UKAS accredited certification body, No. 8400

13 SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE

14 CERTIFICATE NUMBER TÜV 21 UKEX 7015 X

15 Description of Product

Solenoid coils type VACC-S13-18-K4-... *1-... *2ME

*1 The dots will be replaced by 1-3 numbers and letters that define the rated voltage and the installation of a fuse (letter F).

*2 The dots will be replaced by 1-3 numbers and letters that define the target region. For the UKEX certificate the marking is EX4.

General product information

The solenoid coils have been designed as an actuator for valves. They are designed in the type of protection Encapsulation "mb" or Protection by Enclosure "tb". For the power connection of the solenoid coils a connecting room in type of protection "eb" is available. The housing is sealed at the top with a lid and at the bottom with sealing compound. On one side a thread is arranged for attaching one separately certified cable entry. In the enclosure, a coil and further electrical components are fitted.

Technical Data

Electrical data

Type without fuse	VACC-S13-18-K4-1U-...ME	VACC-S13-18-K4-2U-...ME	VACC-S13-18-K4-3U-...ME	VACC-S13-18-K4-27U-...ME
Type with fuse	VACC-S13-18-K4-1UF-...ME	-	-	-
Rated voltage	24V ± 10% DC or AC 40 ... 65Hz	110V ± 10% DC or AC 40 ... 65Hz	230V ± 10% DC or AC 40 ... 65Hz	60V ± 10% DC or AC 40 ... 65Hz
Breaking capacity of installed fuse F	Littelfuse: 4000A or ESKA: 300A			
Rated power	1,8W / 1,8VA			

Environmental data

Ambient temperature range	-30°C ≤ T _a ≤ +60°C	-30°C ≤ T _a ≤ +60°C	-30°C ≤ T _a ≤ +50°C
Maximum medium temperature	+60°C	+60°C	+50°C
II 2G Ex eb mb IIC T* Gb	T4	T5	T6
II 2D Ex tb IIC T*°C Db	T130°C	T95°C	T85°C

16 Test report No. (associated with this certificate issue): 557 / UKEx 7015.00 / 21

17 Specific Conditions of Use

1. The solenoids have to be installed and used in a manner that electrostatic charges are excluded by operation, maintenance and cleaning.
2. Each solenoid coil that does not feature an internal fuse has to be provided with an external fuse to prevent short-circuits. Up to a rated voltage of 250V, the breaking capacity of the fuse must be at least 1500A.
3. In case of an internal fuse type with 300A breaking capacity is a warning making "MAX. PERMISSIBLE SHORT_CIRCUIT CURRENT OF THE POWER SUPPLY SOURCE 300A" required.

18 Essential Health and Safety Requirements (Regulations Schedule 1)

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

19 Drawings and Documents

Reg. no.	Document title:	Document no.:	Rev.:	Date:
	*KONFORMITÄT	5672315		2022-02-01
	*operating-instr	8174647	1	2022-03
	*Label	-	-	-