



Translation

(1) EC-TYPE EXAMINATION CERTIFICATE

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - **Directive 94/9/EC**

(3) EC-Type Examination Certificate Number



TÜV 03 ATEX 2043 X

(4) Equipment: Snap Action Switch installed in a metal enclosure
type ...SU1.Ex... resp.
type ...SU1. / SU1.Ex...

(5) Manufacturer: Bernstein AG

(6) Address: Tieloser Weg 6
D-32457 Porta Westfalica

(7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH & Co. KG, TÜV CERT-Certification Body, notified body number N° 0032 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential report N° 03YEX550146.

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

EN 50014:1997

EN 50018:2000

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment or protective system must include the following:

 **II 2 G EEx d IIC T6**

TÜV NORD CERT GmbH & Co. KG
TÜV CERT-Certification Body
Am TÜV 1
D-30519 Hannover
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Head of the
Certification Body



Hanover, 2003-03-03

(13)

SCHEDULE

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 03 ATEX 2043X**

(15) Description of equipment

The Snap Action Switch installed in a metal enclosure type ...SU1.Ex resp. type ...SU1. / SU1.Ex is used as a machine-operated control switch. The included built-in switch is a changeover double gap contact element (1 break and 1 make contact separated). The necessary protection against mechanical stress is reached by mounting in a metal enclosure.

The electrical connection is provided by means of a connecting cable which is molded in the internal Snap Action Switch. For the leading-in of the cable into the enclosure a cable entry is used which is screwed in the wall of the enclosure.

Electrical data

Switching capacity		
Voltage max.	250 V	240 V
Current max.	0,27 A	3,0 A
Related to utilization category	DC-13	AC-15
<i>Provided the making and breaking capacity complies with the relevant conditions other values are accepted and will be defined by the manufacturer on the basis of the operating mode, utilization category ect..</i>		
Rated operating voltage	230V AC	
Type of contacts	changeover double gap contact element (1 break and 1 make contact separated)	
Temperature class at conventional thermal current and max. permissible ambient temperature	T6 10A +70°C	
The Snap Action Switch installed in a metal enclosure is designed for a temperature resistance of 100°C.		
Nominal conductor cross section max.	2 to 4 x 0.75mm ²	

(16) Test documents are listed in the test report No.: 03 YEX 550146.

(17) Special conditions for safe use

The connecting cable of the switch must be installed fixed and mechanical protected. In case of connecting in the hazardous area an enclosure must be used which meets a recognized type of protection according to EN50014, section 1.2. and which has to comply with section 14.

(18) Essential Health and Safety Requirements

no additional ones

Translation

1. SUPPLEMENT

to Certificate No.**TÜV 03 ATEX 2043 X****Equipment:**Snap action switch installed in a metal enclosure
type ...SU1.Ex... resp.
type ...SU1. / SU1.Ex...**Manufacturer:**

Bernstein AG

Address:Tieloser Weg 6
32457 Porta Westfalica
Germany**Order number:**

8000423455

Date of issue:

2015-02-16


Amendments:

The max. permissible ambient temperature in the future is 60 °C.

The snap action switch type ... SU1. Ex ... resp. type ... SU1. / SU1. Ex ... may be used in the future in dust explosion hazardous areas.

The special condition for safe use changes.

The marking changes as follows:

 **II 2 G Ex d IIC T6 Gb**
II 2 D Ex tb IIIC T80 °C Db

All other data apply unchanged for this supplement.

The equipment incl. of this supplement meets the requirements of these standards:

EN 60079-0:2012**EN 60079-1:2007****EN 60079-31:2014**

(16) The test documents are listed in the test report No. 15 203 125568.

(17) Special conditions for safe use

The connection cable of the switch must be installed fixed and protected against mechanical damage. The cable must be connected in an enclosure which corresponds to a recognized type of protection according to EN 60079-0, if the connection is made in a hazardous area.

(18) Essential Health and Safety Requirements

no additional ones

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body



Meyer

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