Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

(1) # EC-TYPE-EXAMINATION CERTIFICATE

(Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**

(3) EC-type-examination Certificate Number:

PTB 03 ATEX 2221 X

(4) Equipment: Solenoid, type 0518 and type 1218

(5) Manufacturer: Stasto Ing. Stocker KG

(6) Address: Feldstraße 9-11, 6020 Innsbruck, Austria

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment 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 test report PTB Ex 03-23262.

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

EN 50014:1997 + A1 + A2 **EN 50028:1987** **EN 50281-1-1:1999**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 shall include the following:

II 2 G EEx m II T6, T5, T4 and II 2 D IP 65 T 80 °C, T 95 °C, T 130 °C

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

(signature)

Dr.-Ing. U. Johannsmeyer
Regierungsdirektor

Braunschweig, November 05, 2003

4 pages, correct and complete as regards content.
On behalf of PTB:

Dr.-Ing. U. Johannsmeyer
Direktor und Professor

Braunschweig, January 17, 2013

(13) # S C H E D U L E

(14) ## EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 2221 X

(15) Description of equipment

The solenoid consists of a magnet coil, an armature system and a fixing nut. The armature guide forms the flameproof part of the magnet, the guide tube is tested with 1.5-fold the nominal operating pressure. Depending on the design the guide tube is suitable for thread mounting or flange mounting. The winding consists of varnished copper wire complying with insulation class H. This coil is injection-moulded with pre-plastified granulate using a mould. A circuit board with electronic components is soldered to the terminal posts of the moulded part of the coil. A housing consisting of glass-fibre-reinforced polyimide 6 is mounted over the terminal area and subsequently casted.

Electrical data

Type designation	1218..
Type of current	direct current
Nominal voltage	6 V ... 220 V
Rated current	0.845 A ... 0.022 A
Limit power	4.9 W
Max. permissible ambient temperature	40 °C
Temperature class	T6
Medium temperature	70 °C
Single mounting	yes
Butt mounting	no

Type designation	0518..
Type of current	alternating current
Nominal voltage	12 V ... 240 V
Rated current	0.366 A ... 0.021 A
Limit power	4.8 W
Max. permissible ambient temperature	50 °C
Temperature class	T6
Frequency	50 Hz ... 60 Hz
Medium temperature	70 °C
Single mounting	yes
Butt mounting	no

SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 2221 X

Type designation	1218..
Type of current	direct current
Nominal voltage	6 V ... 220 V
Rated current	0.845 A ... 0.022 A
Limit power	4.6 W
Max. permissible ambient temperature	50 °C
Temperature class	T5
Medium temperature	80 °C
Single mounting	yes
Butt mounting	yes, wall-to-wall

Type designation	0518..
Type of current	alternating current
Nominal voltage	12 V ... 240 V
Rated current	0.366 A ... 0.021 A
Limit power	4.9 W
Max. permissible ambient temperature	50 °C
Temperature class	T5
Frequency	50 Hz ... 60 Hz
Medium temperature	80 °C
Single mounting	yes
Butt mounting	yes, wall-to-wall

Type designation	1218..
Type of current	direct current
Nominal voltage	6 V ... 220 V
Rated current	1.58 A ... 0.043 A
Limit power	10.1 W
Max. permissible ambient temperature	50 °C
Temperature class	T4
Medium temperature	80 °C
Single mounting	yes
Butt mounting	yes, wall-to-wall

Type designation	0518..
Type of current	alternating current
Nominal voltage	12 V ... 240 V
Rated current	0.623 A ... 0.039 A
Limit power	9.2 W
Max. permissible ambient temperature	50 °C
Temperature class	T4
Frequency	50 Hz ... 60 Hz
Medium temperature	80 °C
Single mounting	yes
Butt mounting	yes, wall-to-wall

(16) Test report PTB Ex03-23262

(17) Special conditions for safe use

A fuse corresponding to the rated current of the magnet (max. 3 x I_B according to IEC 60127-2-1) or a motor protecting switch with short-circuit- or thermal instantaneous tripping (adjusted to rated current) shall be connected in series to each magnet. For very low rated currents of the magnet the fuse with the lowest current value according to the aforementioned IEC-standard will be sufficient. This fuse may be accommodated inside the associated power supply unit or has to be connected in series separately. The rated voltage of the fuse shall be the same as or higher than the rated voltage specified for the magnet. The breaking capacity of the fuse link shall be the same as or higher than the maximum short-circuit current expected to occur at the place of installation (normally 1500 A).

A maximum permissible ripple of 20% applies to all magnets of d.c.-design.

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Braunschweig, November 05, 2003

(signature)

Dr.-Ing. U. Johannsmeyer
Regierungsdirektor

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

1. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 2221 X

(Translation)

Equipment: Solenoid, type 0518 and type 1218

Marking: Ⓔx **II 2 G EEx m II T6, T5, T4 and II 2 D IP 65 T80 °C, T95 °C, T130 °C**

Manufacturer: STASTO Ing. Stocker KG

Address: Feldstraße 9-11, 6020 Innsbruck, Austria

Description of supplements and modifications

In addition to the technical modifications of the input circuitry an alternative impregnating agent may be used for the coil.

In the future the equipment shall be marked as follows:

Ⓔx **II 2 G Ex mb II T6, T5, T4**

Ⓔx **II 2 D Ex tD A21 IP 65 T80 °C, T95 °C, T130 °C**

All other specifications of the examination certificate as well as the "Special Conditions" apply without changes.

Applied standards

EN 60079-0:2006, EN 60079-18:2004, EN 61241-0:2006, EN 61241-1:2004

Test report: PTB Ex 10-20195

ZSEx10101e.dotm

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

(signature)

Dr.-Ing. U. Johannsmeyer
Direktor und Professor

Braunschweig, November 17, 2010

1 page, correct and complete as regards content.
On behalf of PTB:

Dr.-Ing. U. Johannsemeyer Braunschweig, January 17, 2013
Direktor und Professor

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT 24

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

2. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 2221 X

(Translation)

Equipment: Solenoid, type 0518 and type 1218

Marking: **II 2 G Ex mb II T6, T5, T4 and**
II 2 D Ex tD A21 IP65 T80 °C, T95 °C, T130 °C

Manufacturer: STASTO Ing. Stocker KG

Address: Feldstraße 9-11, 6020 Innsbruck, Austria

Description of supplements and modifications

In the future the solenoid, type 0518 / 1218 will be marked as follows:

II 2 G Ex mb IIC T6, T5, T4
II 2 D Ex mb tb IIIC T80 °C, T95 °C, T130 °C

or

II 2 G Ex mb IIC T6, T5, T4 Gb
II 2 D Ex mb tb IIIC T80 °C, T95 °C, T130 °C Db

All other specifications of the EC-type examination certificate and the supplement apply without changes.

Applied standards

EN 60079-0:2009, EN 60079-18:2009, EN 60079-31:2009

Test report: PTB Ex 12-22282

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

(signature)

Dr.-Ing. U. Johannsmeyer
Direktor und Professor

Braunschweig, November 23, 2012

1 page, correct and complete as regards content.
On behalf of PTB:

Dr.-Ing. U. Johannsmeyer
Direktor und Professor

Braunschweig, January 17, 2013

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

(1) # NOTIFICATION

OF CONFORMITY TO TYPE BASED ON INTERNAL PRODUCTION CONTROL PLUS SUPERVISED PRODUCT TESTING
(Translation)

(2) Equipment or protective systems or components intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**

(3) Notification number: **PTB 03 ATEX N075-6**

(4) EC-Type Examination Certificate(s):
PTB 03 ATEX 2221 X

(5) Manufacturer: STASTO Automation KG

(6) Address: Feldstraße 9-1
6020 Innsbruck, Austria

(7) The Physikalisch-Technische Bundesanstalt (PTB), Notified Body No. 0102 for Annex VI in accordance with Article 21 of the Council Directive 2014/34/EU of February 26, 2014 notifies to the applicant that the manufacturer complies to the requirements of Annex VI to the Directive for the listed EC-type examination certificates.

(8) This notification is based on the test report No. 21-21177, issued on October 27, 2021.

(9) This notification is valid until November 4, 2024 and can be withdrawn if the manufacturer no longer satisfies the requirements of Annex VI.

(10) According to Article 16 (3) of the Directive 2014/34/EU the CE mark shall be followed by the identification Number 0102 of PTB as the Notified Body involved in the production control stage.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, October 27, 2021

Dipl.-Ing. M. Graube

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