(1) # EU - Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) EU - Type Examination Certificate Number

EPS 18 ATEX 1 159 X **Revision 0**

(4) Equipment: Ex-p Relais – Power Type 17-51P6-1*11/****

(5) Manufacturer: BARTEC GmbH

(6) Address: Max-Eyth-Str. 16, 97980 Bad Mergentheim, Germany

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

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, 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 of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 18TH0361.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN 60079-5:2015** **EN 60079-7:2015**

(IEC 60079-0:2017) **EN 60079-31:2014**

(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 annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 2G Ex eb qb IIC T4 Gb
II 2D Ex tb IIIC T130°C Db

Certification department of explosion protection

Hamburg, 2019-09-03

H. Schaffer

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH. EPS 18 ATEX 1 159 X, Revision 0.

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(13) # Annex

(14) **EU - Type Examination Certificate EPS 18 ATEX 1 159 X** **Revision 0**

(15) Description of equipment:

The Ex p relay is used for the safe separation of supply lines directly in the Ex hazardous area and it can be used in conjunction with a BARTEC pressurized enclosure system. It has 4 galvanically isolated switching contacts, which open if the control voltage is switched off. The safe opening of these contacts is ensured by two series-connected relay contacts. Due to the high switching capacity (400 V, 16 A, 4 kW), 3 - phase supply cables can be disconnected.

Electrical data:

Rated voltage (L+, L-)	230 V ac, 110 V ac, 24 V dc
Max. switching voltage (AC)	400 V
Max. switching voltage (DC)	28 V
Max. switching current	16 A
Max. inrush current	80 A (20 ms), 30 A (4s)
Breaking capacity	4000 VA
Power consumption	3,5 W
Ambient Temperature (Ta)	-25°C to +65°C (*)
Temperature class	T4 (130°C)
IP Protection rate	IP 66 with separate enclosure IP 20 with Ex-q container
Weight	1.5 kg
Dimensions	115 mm x 57 mm x 112 mm
Installing position	All possible positions

(*) – for relevant correlation between T_a and current carrying capacity see the current carrying capacity table

(16) Reference number: 18TH0361

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(17) Conditions for manufacturing, installation and operation:

The Ex-p Relay - Power shall be mounted in an enclosure with minimum dimensions of 220 mm x 120 mm x 90 mm that meets the requirements of an approved type of protection in accordance with IEC/EN 60079-0, section 1. Also when installed in an enclosure designed to type of protection Increased Safety "e" in accordance with IEC/EN 60079-7, the clearance and creepage distances as specified in section 4.3, section 4.4, and table 1 shall duly be considered.

For usage in an environment with high air humidity, a certified enclosure with a breathing system shall be used.

The Ex-p Relay-Power contacts shall be protected by a current limiting fuse (e.g. fuse value <16A, 1500A breaking capacity).

The Ex-p Relay - Power shall be used according to the parameters from the following table:

Current carrying capacity	10A	12A	13A	14A	15A	16A
Ambient temperature T_a	65°C	60°C	52°C	45°C	38°C	25°C

(18) Essential health and safety requirements:

Met by compliance with standards.

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