



## (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 00 ATEX 1063**



- (4) Equipment: Power distribution, switchgear and controlgear assembly  
type 05. .... and 15. ....
- (5) Manufacturer: ROSE Elektrotechnik GmbH + Co. KG
- (6) Address: D-32457 Porta Westfalica
- (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 report PTB Ex 00-10128.

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 50014:1997    EN 50018:1994    EN 50019:1994    EN 50020:1994**
- (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 and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.
- (12) The marking of the equipment shall include the following:

**II 2 G    EEx e II T6 bzw. EEx ed IIC T6 bzw. EEx ia IIC T6 bzw. EEx e [ia] IIC  
T6 bzw. EEx ed [ia] IIC T6**

Zertifizierungsstelle Explosionschutz  
By order:

Braunschweig, August 03, 2000

In the absence of  Dr.-Ing. U. Klausmeyer  
Regierungsdirektor

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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

(13)

## SCHEDULE

(14)

### EC-TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1063

(15) Description of equipment

The power distribution, switchgear and controlgear assembly of type 05. .... und 15. .... consists of – separately certified – terminal housings of aluminium of the Increased Safety "e" type of protection which are provided for stationary assembly.

They are optionally used as terminal housings for circuits of the Increased Safety "e" type of protection or of the Intrinsic Safety "ia" type of protection or combinations of intrinsically safe and non-intrinsically safe circuits in the types of protection Increased Safety "e" and Intrinsic Safety "ia".

All terminal housings can also be equipped with – separately certified – control and signaling units and fuses in the Flameproof Enclosure "d" type of protection.

The connection is from outside via separately certified cable and conduit entries. The housing area for intrinsically safe circuits is marked, e.g. in light blue. The maximum permissible ambient temperature range of the terminal housing can be limited by the maximum permissible ambient temperature ranges of the separately certified equipment.

#### Technical data

Rated voltage:\* ..... up to 690 V

Rated current:\* ..... max. 500 A

Rated wire range:\* ..... max. 240 mm<sup>2</sup>

Protective conductor section:\* ..... max. 120 mm<sup>2</sup>

*\*) according to terminal type and ex-components used*

Ambient temperature range    -20 °C...+80 °C with CR, NBR and PU Fermapor seal  
   -55 °C...+100 °C with silicon and HF seal

The rated values are maximum values, the actual electrical values depend on the electrical equipment incorporated. Within the scope of these maximum permissible values and with due regard to the standards, the manufacturer specifies the final rated values dependent on the system conditions, mode of operation, utilization category, etc. The characteristic values of the intrinsically safe circuits are to be given by the manufacturer on his own responsibility. Further technical details have been specified in the test documents.

The composition of the symbol specifying the type of protection depends on the types of protection of the components used.

(16) Test report PTB Ex 99-10128

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(17) Special conditions for safe use

**None.**

Hints for installation and operation

The maximum number of conductors for the housing size in dependence on the section and the permissible continuous current rating are to be taken from the specifications.

If the distances required according to EN 50020 for connection facilities are not ensured by the installation, cables of increased safety "e" quality of fail-safe cables are to be used.

When more than one intrinsically safe circuit is used, the rules for interconnection are to be observed

(18) Essential health and safety requirements

The tests carried out and their results show that the power distribution, switchgear and controlgear assembly of type 05. .... und 15. .... meets the requirements of Directive 94/9/EC and of the standards given on the cover sheet.

Zertifizierungsstelle Explosionsschutz

By order:

*L. V. Be...*

In the absence of *Dr. Ing. U. Klausmeyer*  
Regierungsdirektor



Braunschweig, August 03, 2000


## 1st SUPPLEMENT

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

### to EC-TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1063

(Translation)

Equipment: Power distribution, switch and control gear assembly, types 05. .... and 15. ....

Marking:  II 2 G EEx e II T6 or EEx ed IIC T6 or EEx ia IIC T6 or  
EEx e [ia] IIC T6 or EEx ed [ia] IIC

Manufacturer: ROSE Systemtechnik GmbH + Co. KG

Address: Erbeweg 13  
32457 Porta Westfalica, Germany

#### Description of supplements and modifications

The power distribution, switch and control gear assembly, types 05. .... und 15. .... , ... may also be employed in areas in which explosive atmospheres with dust/air mixtures have to be expected to occur.


Separately certified control and signalling devices as well as fuses designed to type of protection Flameproof Enclosure "d" and Encapsulation "m" may be fitted.

The empty enclosure specified in the 1<sup>st</sup> supplement for PTB 98 ATEX 3101 U may be used.

The temperature class is extended and will now also cover classes T5 and T4, respectively. The maximum permissible ambient temperature of the separately certified operators shall duly be considered.

The rated voltage will be increased to 1500 V.

The marking changes to read:

 II 2 G/D EEx edm ia [ia] IIC T6, T5 or T4 IP 66 T 85 °C, T 100 °C or T 135 °C

The composition of the protection symbol will be based on the types of protection of components actually used.

#### Technical data

Rated voltage:\* ..... up to 1500 V  
Rated current:\* ..... max. 500 A  
Cross-sectional area of plan conductor:\* ..... max. 240 mm<sup>2</sup>  
Cross-sectional area of protective conductor:\* .... max. 120 mm<sup>2</sup>

\*) depending on the type of terminal and the components used

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Shock protection, protection against solid bodies,  
and protection against ingress of water: IP66 acc. to EN 60529:1991 as a minimum

Ambient temperatures:


- 20 °C to +55 °C with CR, NBR and PU-Fermapor seal
- 55 °C to +55 °C with silicone and HF seal
- 55 °C to +90 °C with silicone foam seal produced by SICO
- 20 °C to +55 °C with glass / polycarbonate pane

Test report: PTB Ex 03-13203

Zertifizierungsstelle Explosionsschutz

Braunschweig, July 21, 2003

By order:

  
Dr.-Ing. M. Thedens

