

EU - Type Examination Certificate

(1)

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

(3) EU - Type Examination Certificate Number

EPS 16 ATEX 1 095 X

Revision 1

(4) Equipment: Semi-hermetic compressor type EX-HG(X)12P, EX-HG(X)22e and EX-HG(X)34e

(5) Manufacturer: Bock GmbH

(6) Address: Benzstraße 7
72636 Frickenhausen
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 16TH0019.

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

EN IEC 60079-0:2018

EN 60079-1:2014

EN 60079-7:2015/A1:2018

EN 60079-11:2012

EN 60079-18:2015/A1:2017

(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 construction 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:

EX-HG(X)12P und EX-HG(X)22e:

EX-HG(X)34e:



II 2G Ex db eb ia IIC/IIB T3 Gb



II 2G Ex db eb ia mb IIC/IIB T3 Gb



Certification department of explosion protection

H. Schaffer

Hamburg, 2021-01-25

(13)

Annex

(14) **EU - Type Examination Certificate EPS 16 ATEX 1 095 X**

Revision 1

(15) Description of equipment:

The semi-hermetic refrigerating compressor is a central equipment of the refrigeration cycle. By the compression of the refrigerant gas from the low to the high-pressure side of the compressor, it is heated. The drive motor is integrated in the semi-hermetic design into the compressor. The entire refrigerant circuit including the motor is viewed as hermetically sealed and thus it does not require a standardized ignition protection. The entire electrical connection area is protected by the use of the ignition protection Ex "eb" and/or Ex "db".

Technical & electrical data:

Characteristics	EX-HG(X)12P	EX-HG(X)22e	EX-HG(X)34e
Rated voltage	400 – 690 V	400 – 690 V	400 – 690 V
Frequency range	10Hz – 90 Hz (restricted frequency range according to manufacturer documents)	10Hz – 90 Hz (restricted frequency range according to manufacturer documents)	10Hz – 90 Hz (restricted frequency range according to manufacturer documents)
Max. current	7.4 A (reduced values according to manufacturer documents)	11.3 A (reduced values according to manufacturer documents)	21.6 A (reduced values according to manufacturer documents)
Protection terminal box	IP66	IP66	IP66
Dessign compressor	Semi-hermetic	Semi-hermetic	Semi-hermetic
Compressor with an insulating coating < 2 mm	Range of use – gas group IIB	Range of use – gas group IIB	Range of use – gas group IIB
Compressor with dissipative coating < 2 mm	Range of use – gas group IIC	Range of use – gas group IIC	Range of use – gas group IIC

(16) Reference number: 16TH0019

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(17) Special conditions for safe use:

Rated ambient temperature range: $-20\text{ °C} \leq T_a \leq +60\text{ °C}$ or
 $-20\text{ °C} \leq T_a \leq +50\text{ °C}$ (in combination with capacity regulator)

Use of flammable refrigerants and oils: There are only refrigerants and/or oils permissible with a spontaneous ignition temperature of $T_{\text{ign}} > 250\text{ °C}$.

Compressors with an insulating coating $< 2\text{ mm}$ shall be used only in the gas group IIB or IIA.

(18) Essential health and safety requirements:

Met by compliance with standards.



Certification department of explosion protection

Hamburg, 2021-01-25