

(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: **KEMA 08ATEX0109** Issue Number: 1

(4) Equipment: **HSB Anti-condensation Heating type 27-177*-****/****/******

(5) Manufacturer: **BARTEC GmbH**

(6) Address: **Max-Eyth-Straße 16, 97980 Bad Mergentheim, Germany**

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

(8) KEMA Quality B.V., notified body number 0344 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 confidential test report number 211394200/1.

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

EN 60079-0 : 2006

EN 60079-7 : 2007

EN 60079-30-1 : 2007

(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 according 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 Ex e II 200 °C (T2), T3

This certificate is issued on September 4, 2009 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.



T. Pijpker
Certification Manager



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 08ATEX0109**

Issue No. 1

(15) **Description**

HSB Anti-condensation Heating type 27-177*-****/****/**** is used for heating inside electrical equipment.

Maximum operating temperature, power "on": +120 °C
 Maximum withstand temperature, power "off": +170 °C
 Minimum start-up temperature: -40 °C
 Minimum installation temperature: -40 °C
 Minimum bending radius: 25 mm

Electrical data

27-177 3 - 7 *** / **** / ****
 I II III IV V VI

Designation	Explanation	Value	Explanation
I	General	27-177	HSB Anti-condensation Heating
II	Power output rating	1	10 W/m at 10 °C
		2	15 W/m at 10 °C
		3	20 W/m at 10 °C
		4	25 W/m at 10 °C
		5	30 W/m at 10 °C
		6	45 W/m at 10 °C
		7	60 W/m at 10 °C
III	Rated voltage	6	110 Vac to 120 Vac
		7	208 Vac to 254 Vac
IV	Length of cold leads	***	3 digits in cm
V	Rated power	****	4 digits in W Rated power is limited sufficiently by the maximum circuit lengths specified in the test documentation listed at (19).
VI	Custom marking	****	4 digits Code for custom marking

Temperature class

Rated voltage	Power output rating	T-class
254 Vac	10, 15, 20, 25, 30, 45, 60 W/m	T3
120 Vac	10, 15, 20, 25, 30 W/m	T3
	45, 60 W/m	200 °C (T2)



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 08ATEX0109**

Issue No. 1

Installation instructions

The HSB Anti-condensation Heating is to be installed into an enclosure which meets the requirements of a recognized type of protection according to IEC 60079-0, clause 1. The wiring shall be either mechanically protected, secured, or routed to avoid insulation damage.

For the HSB Anti-condensation Heating a means of isolating all conductors from the supply, an overcurrent protection shall be used. When used in TT and TN systems a residual current device according to IEC 60079-30-1, clause 4.3 point d) shall be installed. When used in IT systems an insulation monitoring device according to IEC 60079-30-1, clause 4.3 point e) shall be used.

Routine tests

For each supplied HSB Anti-condensation Heating, a dielectric test according to EN 60079-30-1 clause 5.2.1 shall be carried out.

(16) **Test Report**

KEMA No. 211394200/1.

(17) **Special conditions for safe use**

None.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 211394200/1.