

(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 09ATEX0110 X** Issue Number: **1**

(4) Equipment: **Electric Switchgear Boxes, type C3..**

(5) Manufacturer: **COOPER Crouse-Hinds SA**

(6) Address: **AVDA. Santa Eulalia 290, 08223 Terrasa/ Barcelona, Spain**

(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 212733300.

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

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

EN 60079-1:2007

EN 61241-0 : 2006

(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 d IIC T6
II 2 D Ex tD A21 IP67 T85 °C

This certificate is issued on December 18, 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.

C.G. van Es
Certification Manager



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 09ATEX0110 X** Issue No. 1

(15) **Description**

Electric Switchgear Boxes, type C3.. intended to incorporate electric switchgear, electronic circuits or terminals. They are made of aluminium alloy with cylindrical shape, having the following dimensions:

C30* 108x108x90 mm * = T three cable entry holes
 C31* 150x150x104 mm * = X four cable entry holes
 C31A* 150x150x147 mm

Ambient temperature range -50 °C to +55 °C.

Electrical data

Type	Utilization	Characteristics
C30*	Connecting terminal	$U_{\max} = 750 \text{ V}$ $I_{\max} = 40 \text{ A}$
C31* C31A*	Connecting terminal	$U_{\max} = 750 \text{ V}$ $I_{\max} = 61 \text{ A}$
	Measurement transformers	$I \leq 25/5 \text{ A}$
	Power transformers	$U_{\max} = 690 \text{ V}$ $S_{\max} = 350 \text{ VA}$
	Air cut switch gear	$U_{\max} = 690 \text{ V}$ $I_{\max} = 25 \text{ A}$
	Fuses	$U_{\max} = 690 \text{ V}$ $I_{\max} = 25 \text{ A}$
	Electronic devices with capacitors up to 2000 μF with discharge resistance, for a maximum period of time of 3 seconds, without cells nor batteries	$U_{\max} = 230 \text{ V}$ $I_{\max} = 5 \text{ A}$ $P_{\max} \text{ dissipated} = 25 \text{ W}$
	Equipment for discharge lamps	$U_{\max} = 230 \text{ V}$ $P_{\max} = 125 \text{ W}$

Dissipated power inside for a temperature class T6:

$P \leq 35 \text{ W}$ for ambient temperature 40 °C

$P \leq 20 \text{ W}$ for ambient temperature 55 °C

Installation instructions

The manual provided with the equipment shall be followed in detail to assure safe operation.

Routine tests

Enclosures marked with $-20 \text{ °C} \leq T_a \leq +40 \text{ °C}$ or $-20 \text{ °C} \leq T_a \leq +55 \text{ °C}$ do not require individual pressure test since they were subjected to a test pressure of four times, the reference pressure during the overpressure test.

Enclosures marked with $-50 \text{ °C} \leq T_a \leq +40 \text{ °C}$ shall be submitted to an overpressure test at 18,4 MPa.

(16) **Test Report**

KEMA No. 212733300.

(13) **SCHEDULE**

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

For information on the dimensions of the flameproof joints the manufacturer shall be contacted.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 212733300.