CERTIFICATE

Issued to:
Applicant:
Vossloh-Schwabe Deutschland GmbH
Hohe Steinert 8
58509 Lüdenscheid, Germany

Licensee:
Vossloh-Schwabe Deutschland GmbH
Hohe Steinert 8
58509 Lüdenscheid, Germany

Product	:	Electronic controlgear for LED modules
Trade name(s)	:	VS LIGHTING SOLUTIONS
Type(s)/model(s)	:	ECXd 700.436 187053 and ECXd 700.436 187054

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:
- a type test according to the standard EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62384:2006 and EN 62384:2006/A1:2009
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 3409202

DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration of the ENEC certification agreement and under the conditions of the ENEC certification agreement.

This certificate is issued on 21 January 2020 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-112360

DEKRA Certification B.V.

B.T.M. Holtus
Managing Director

K Xu
Certification Manager

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DUTCH ACCREDITATION
COUNCIL

PRODUCTS
RvA C 001

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SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product	:	Electronic controlgear for LED modules
Trade name(s)	:	VS LIGHTING SOLUTIONS
Type(s)/model(s)	:	ECXd 700.436 187053 and ECXd 700.436 187054
Primary voltage	:	220…240 V
Nature of supply	:	alternate or direct current
Rated frequency	:	50...60 Hz, 0 Hz
Primary current	:	0,15 A at 50...60 Hz, 0,18 A at 0 Hz
Power factor	:	0,95
Working voltage U-OUT	:	59 V
Type of load	:	LED modules, power LED
Type of thermal protection	:	110
Classification	:	Independent, Built in

TESTS

Test requirements

EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN 61347-1:2015
EN 62384:2006
EN 62384:2006/A1:2009

Test result

The test results are laid down in DEKRA test file 350033600.

Additional information

For specific Model/Type electrical rating refer to following pages.

DEKRA test report No. 2102877.50 and 2102877.60 are laid down in DEKRA test file 350033600; they contain test results and critical component list.

Conclusion

The examination proved that all requirements were met.

Factory location

The factory location is registered with the number 854975.

General product information:

The devices are controlgears for LED modules with stabilized output current (depending on the selection of the DIP switch; the DIP switch options are detailed both in the technical specification and in the marking plates. All models have SELV output. The input voltage is 220-240 V 50..60 Hz; in the marking plate is present also an operative d.c. range in which the products can work for centralized emergency installations (EN 50171 and EN 50172). BI models are built-in, other model is IP20 independent.

Type/s	ac or *dc PRI Current[A]	Power Factor	Output Power (W)	Sec Parameter (A) [1]	U_{max} (Vdc)	ta (°C)	tc (°C)	Thermal Protection (°C) [2]	classification [3]
ECXd 700.436 187053	0,15 *0,18	0,95 (Pout≥6 W)	26	0,25-0,7	59	-25..40	80	110 °C	II
ECXd 700.436 187054						-25..45	80		DI

Notes: * rated 196-250 V range, extended 176-275 V range; [1] – Different values according to DIP switch selection (see marking plate). [2] – The products have an overheating protection (C.5.a automatic resetting type) and comply with temperature limit of clause 4.16.2 of EN 60598-1:04 ("F" triangle marking), EN 60598-1:2015/A1:2018. [3] – Symbols: II=class II, DI=Built-in with double insulation.