

CERTIFICATE

Issued to:
Applicant:
Helvar Oy Ab
Yrittajantie 23
03600 Karkkila, Finland

Licensee:
Helvar Oy Ab
Yrittajantie 23
03600 Karkkila, Finland

Product : Built-in LED controlgear
Trade name(s) : Helvar
Type(s)/model(s) : LL1x10-42-E-CC, LL1x110-E-CC-200-350 and LL1x23-80-E-CC

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 61347-1:2015, EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, 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 4351636

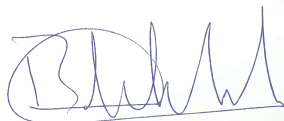
DEKRA hereby grants the right to use the ENEC certification mark.

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 22 December 2020 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-117050

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



K. Lin
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Built-in LED controlgear
Trade name(s)	: Helvar
Type(s)/model(s)	: LL1x10-42-E-CC, LL1x110-E-CC-200-350 and LL1x23-80-E-CC
Rated voltage	: 220-240 VAC/VDC
Rated frequency	: 50-60 Hz
Power factor	: 0,98
Ambient temperature (ta)	: -25...50 °C
Max. case temperature (tc)	: 75 °C
No load voltage (V)	: 400 V
Additional information	: non-inherently short-circuit proof, 120 °C thermal protection

Product data – type LL1x10-42-E-CC

Input Current : 0,18-0,23 A

Product data – type LL1x110-E-CC-200-350

Input Current : 0,4-0,6 A

Product data – type LL1x23-80-E-CC

Input Current : 0,34-0,44 A

TESTS**Test requirements**

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

Test result

The test results are laid down in DEKRA test file 436834900.

Additional information

The list of components is laid down in test report 4368349.50, 4368349.51.

Conclusion

The examination proved that all requirements were met.

Factory location

Trade name(s) : Helvar stands for **Helvar**

Model list:

Model No.	Input	Output		
	Current (A)	Constant current (mA)	Working voltage (Vdc)	Power (W)
LL1x110-E-CC-200-350	0,4-0,6	200	120...350	70
		350	120...314	110
LL1x23-80-E-CC	0,34-0,44	150	150...350	52,5
		200	120...350	70
		350	120...228	80
LL1x10-42-E-CC	0,18-0,23	120	80...350	42
		140	80...300	42
		350	30...120	42