

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) : LL100HE-CC-250-700, LL35HE-CC-120-450 and LL65HE-CC-250-700

The product and any acceptable variation thereto as 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 EN 61347-1:2015, EN 61347-1:2015/A1:2021, EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017 and EN IEC 62384:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 4351636

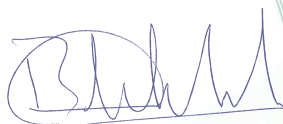
DEKRA hereby grants the right to use the ENEC certification mark.

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

This certificate is issued on 21 December 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-134209

DEKRA Certification B.V.



B.T.M. Holtus
 Managing Director



K Xu
 Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE
 DUTCH ACCREDITATION
 COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Built-in LED controlgear
Trade name(s)	: Helvar
Type(s)/model(s)	: LL100HE-CC-250-700, LL35HE-CC-120-450 and LL65HE-CC-250-700
Rated input voltage	: 220-240 V
Rated frequency	: 0/50-60 Hz
Ambient temperature (ta)	: -25 - 50 °C
No load voltage	: 250 Vdc
Additional information	: auto-wound, built-in controlgear, non-Inherently short-circuit proof, EL-mark

Product data – type LL100HE-CC-250-700

Input current	: 0,40-0,54 A
Power factor	: 0,84c-0,98
Rated wattage	: 55-100 W
Max. case temperature	: 75 °C
Additional information	: 130 °C thermal protection

Product data – type LL35HE-CC-120-450

Input current	: 0,13-0,18 A
Power factor	: 0,70c-0,98
Rated wattage	: 26,4-35,1W
Max. case temperature	: 80 °C
Additional information	: 120 °C thermal protection

Product data – type LL65HE-CC-250-700

Input current	: 0,29-0,32 A
Power factor	: 0,78c-0,98
Rated wattage	: 55-65 W
Max. case temperature	: 75 °C
Additional information	: 130 °C thermal protection

TESTS**Test requirements**

EN 61347-1:2015
EN 61347-1:2015/A1:2021
EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN IEC 62384:2020

Test result

The test results are laid down in DEKRA test file 491155000.

Additional information

This certificate replaces certificate No. 35-123824 which we hereby declare invalid.

The list of components is laid down in test report 4911550.50, 4911550.51.

Conclusion

The examination proved that all requirements were met.

Factory locations

Helvar Oy Ab
Yrittajantie 23
03600 Karkkila, Finland

Trade name(s) : Helvar stands for

Helvar

Model list

Model No.	Input			Output				I _{set}	ta (°C)	tc (°C)
	Voltage (VAC / VDC)	Current (A)	PF	Current (mA)	Voltage (Vdc)	No load voltage (Vdc)	Power (W)			
LL35HE- CC-120- 450	220-240	0,13- 0,18	0,70c - 0,98	120	40-220	250	26,4	R=∞Ω	-25- 50	80
				450	40-78		35,1	R=0Ω		
LL65HE- CC-250- 700	220-240	0,29- 0,32	0,78c - 0,98	250	50-220	250	55	R=∞Ω	-25- 50	75
				700	50-93		65	R=0Ω		
LL100HE- CC-250- 700	220-240	0,40- 0,54	0,84c - 0,98	350	50-220	250	77	Fixed	-25- 50	75
				250	50-220		55	R=∞Ω		
				700	50-143		100	R=0Ω		