

# 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 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

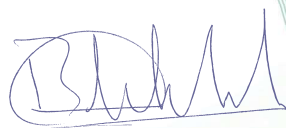
DEKRA hereby grants the right to use the ENEC certification mark.

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 March 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-138249

DEKRA Certification B.V.



B.T.M. Holtus  
 Managing Director



Miranda Zhou  
 Certification Manager

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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)	: LL1x10-42-E-CC, LL1x110-E-CC-200-350 and LL1x23-80-E-CC
Rated voltage	: 220-240
Rated frequency	: 50-60 Hz
Nature of supply	: AC/DC
Ambient temperature (ta)	: -25...50 °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 61347-1:2015/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 490796600.

**Additional information**

This certificate replaces certificate No. 35-117050 which we hereby declare invalid.

The list of components is laid down in test report 4907966.50,4907966.51.

**Conclusion**

The examination proved that all requirements were met.

**Factory locations**

Helvar Oy Ab  
Yrittajantie 23  
03600 Karkkila, Finland

Trade name : Helvar stands for

# Helvar

Model list:

Model No.	Input			Output				ta (°C)	tc (°C)
	Voltage (VAC/VDC)	Current (A)	PF	Constant current (mA)	Working voltage (Vdc)	No load voltage (V)	Power (W)		
LL1x110-E-CC-200-350	220-240	0,4-0,6	0,87c-0,98	200	120...350	400	70	-25...50	85
				350	120...314		110		
LL1x23-80-E-CC	220-240	0,34-0,44	0,86c-0,98	150	150...350	400	52,5	-25...50	85
				200	120...350		70		
				350	120...228		80		
LL1x10-42-E-CC	220-240	0,18-0,23	0,77c-0,98	120	80...350	400	42	-25...50	75
				140	80...300		42		
				350	30...120		42		