

ELEMENT SELV

Linear / Area Constant Current – Non dimmable



Areas of application

- Linear lighting for office, school and public areas
- Suitable for luminaires of protection class I

Product family benefits

- Small housing design
- Flexible current setting (DIPswitch – 4 currents)
- Enhanced safety due to overload, overtemperature, short-circuit protection

Product family features

- Line frequency: 50 Hz | 60 Hz
- Supply voltage: 220...240 V
- Lifetime: up to 50,000 h (temperature at T_c max. = -10 °C, max 10% failure rate)
- SELV driver

Product family datasheet

Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Current set	Power factor λ
ELEMENT 35/220...240/800 CS L	220...240 V	50/60 Hz	198...264 V	DipSwitch	0.96 ¹⁾
ELEMENT 55/220...240/1200 CS L	220...240 V	50/60 Hz	198...264 V	DipSwitch	0.98 ¹⁾

Product description	Efficiency in full-load	Device power loss	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 10 A (C)
ELEMENT 35/220...240/800 CS L	88 %	5.24 W ²⁾	12.5 A ³⁾	16	30
ELEMENT 55/220...240/1200 CS L	89 %	7.0 W ⁸⁾	12.5 A ³⁾	25	25

Product description	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 16 A (C)	Surge capability (L/N-Ground)	Surge capability (L-N)
ELEMENT 35/220...240/800 CS L	28	45	2 kV	1 kV
ELEMENT 55/220...240/1200 CS L	40	40	2 kV	1 kV

Product description	Nominal output voltage	Nominal output current	Output ripple current (100 Hz)	Output PSTLM
ELEMENT 35/220...240/800 CS L	23...51 V ⁴⁾	500 / 600 / 700 / 800 mA ⁵⁾	< 30 % ⁶⁾	≤1
ELEMENT 55/220...240/1200 CS L	23...51 V ⁹⁾	920 / 1050 / 1075 / 1200 mA ⁵⁾	< 30 % ⁶⁾	≤1

Product description	Output SVM	Nominal output power	Maximum output power	Galvanic isolation
ELEMENT 35/220...240/800 CS L	≤0.7	11.5...40.8 W	40.8 W	SELV
ELEMENT 55/220...240/1200 CS L	≤0.7	21...61 W	61 W	SELV

Product description	U-OUT (working voltage)	Total harmonic distortion	Output current tolerance	Default output current
ELEMENT 35/220...240/800 CS L	< 60 V	< 20 % ⁷⁾	±7.5 %	800 mA
ELEMENT 55/220...240/1200 CS L	< 60 V	< 20 % ⁷⁾	±7.5 %	1200 mA

¹⁾ Full load at 230 V/50 Hz

²⁾ At 230 V

³⁾ $t_{width} = 180 \mu s$ typical (measured at 50 % I_{peak})

⁴⁾ At 500/600mA / At 700/800mA

⁵⁾ ±7.5%

⁶⁾ Ripple average at 100 Hz

⁷⁾ At full load, 230 V, 50 Hz / see graphs

Product family datasheet

8) At 230 V, Input power 68 W max.

9) At 920/1050mA / At 1075/1200mA

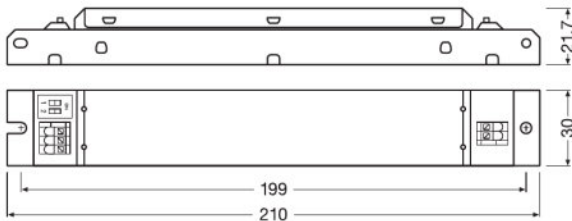
Dimensions & weight

Product description	Mounting hole spacing, length	Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
ELEMENT 35/220...240/800 CS L	200.0 mm	140.00 g	0.5...1.5 / 0.75...1.5 mm ² 1)	0.5...1.5 / 0.75...1.5 mm ² 1)	8.5...9.5 mm
ELEMENT 55/220...240/1200 CS L	200.0 mm	145.00 g	0.5...1.5 / 0.75...1.5 mm ² 1)	0.5...1.5 / 0.75...1.5 mm ² 1)	8.5...9.5 mm

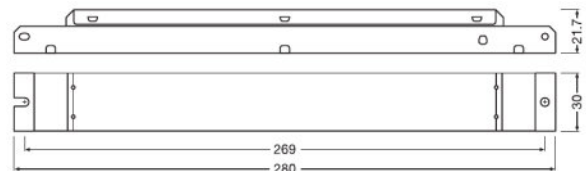
Product description	Wire preparation length, output side	Height	Width	Length
ELEMENT 35/220...240/800 CS L	8.5...9.5 mm	21.0 mm	30.0 mm	210.0 mm
ELEMENT 55/220...240/1200 CS L	8.5...9.5 mm	21.0 mm	30.0 mm	210.0 mm

1) Solid or flexible leads

Product line drawing



ELEMENT 35/220...240/800 CS L



ELEMENT 55/220...240/1200 CS L

Product family datasheet

Colors & materials

Product description	Casing material
ELEMENT 35/220...240/800 CS L	Metal
ELEMENT 55/220...240/1200 CS L	Metal

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
ELEMENT 35/220...240/800 CS L	-20...+50 °C	75 °C	110 °C	-40...+85 °C
ELEMENT 55/220...240/1200 CS L	-20...+50 °C	80 °C	110 °C	-40...+85 °C

Product description	Permitted rel. humidity during operation
ELEMENT 35/220...240/800 CS L	5...85 % ¹⁾
ELEMENT 55/220...240/1200 CS L	5...85 % ¹⁾

¹⁾ Non-condensing

Lifespan

Product description	ECG lifetime
ELEMENT 35/220...240/800 CS L	35000 / 50000 h ¹⁾
ELEMENT 55/220...240/1200 CS L	35000 / 50000 h ²⁾

¹⁾ At maximum $T_c = 75^\circ\text{C}$ / 10% failure rate / At $T_c = 65^\circ\text{C}$ / 10% failure rate

²⁾ At maximum $T_c = 80^\circ\text{C}$ / 10% failure rate, At $T_c = 70^\circ\text{C}$ / 10% failure rate

Capabilities

Product description	Dimmable	Overheating protection	Overload protection
ELEMENT 35/220...240/800 CS L	No	Automatic reversible	Automatic reversible
ELEMENT 55/220...240/1200 CS L	No	Automatic reversible	Automatic reversible

Product description	Short-circuit protection	No-load proof	Max. cable length to lamp/LED module	Suitable for fixtures with prot. class
ELEMENT 35/220...240/800 CS L	Automatic reversible	Yes	2.0 m ¹⁾	I
ELEMENT 55/220...240/1200 CS L	Automatic reversible	Yes	2.0 m ¹⁾	I

Product description	Number of channels
ELEMENT 35/220...240/800 CS L	1
ELEMENT 55/220...240/1200 CS L	1

¹⁾ Output wires must be routed as close as possible to each other

Product family datasheet

Programming

Product description	Programming device
ELEMENT 35/220...240/800 CS L	DIPswitch
ELEMENT 55/220...240/1200 CS L	DIPswitch

Certificates & standards

Product description	Approval marks – approval	Standards	Type of protection
ELEMENT 35/220...240/800 CS L	CE / ENEC 05 / EAC / BIS / RCM / CCC	Acc. to IEC 61347-1/Acc. to EN 61347-2-13/Acc. to EN 62384/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61547	IP20
ELEMENT 55/220...240/1200 CS L	CE / ENEC 05 / EAC / BIS / RCM / CCC	Acc. to IEC 61347-1/Acc. to EN 61347-2-13/Acc. to EN 62384/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61547	IP20

Logistical data

Product description	Commodity code
ELEMENT 35/220...240/800 CS L	85044083900
ELEMENT 55/220...240/1200 CS L	85044083900

Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Declaration No. in SCIP database
ELEMENT 35/220...240/800 CS L	25-04-2022	4052899553132	In work
ELEMENT 55/220...240/1200 CS L	25-04-2022	4052899553156	d7e6dbbb-edc2-4340-a66e-93c60cf8297c

Product description	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction
ELEMENT 35/220...240/800 CS L			
ELEMENT 55/220...240/1200 CS L	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.

Product family datasheet





Application advice

For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File
 Certificates ENEC certificate
 Certificates CCC certificate 35W
 Declarations of conformity ELEMENT CS L CE 3650277 161023
 Certificates ENEC -55W (EN)

Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899553132	ELEMENT 35/220...240/800 CS L	Shipping carton box 20	228 mm x 138 mm x 160 mm	5.03 dm ³	3078.00 g
4052899553156	ELEMENT 55/220...240/1200 CS L	Shipping carton box 20	228 mm x 138 mm x 160 mm	5.03 dm ³	3178.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Product family datasheet

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.