

## ELEMENT 55/220-240/1200 CS L (NEW)

ELEMENT SELV | Linear / Area Constant Current – Non dimmable



### 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 benefits

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

## Areas of application

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

## Technical data

### Electrical data

Nominal input voltage	220...240 V
Nominal output current	920 mA / 1050 mA / 1075 mA / 1200 mA <sup>1)</sup>
Nominal output power	21...61 W
Nominal output voltage	23...51 V <sup>2)</sup>
Maximum output power	61 W
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	not relevant
Default output current	1200 mA
Device power loss	7.0 W <sup>3)</sup>
Efficiency in full-load	89 %
Inrush current	12.5 A <sup>4)</sup>
Max. ECG no. on circuit breaker 10 A (B)	25
Max. ECG no. on circuit breaker 16 A (B)	40
Max. ECG no. on circuit breaker 25 A (B)	not relevant
Output current tolerance	±7.5 %
Output PSTLM	≤1
Output ripple current (100 Hz)	< 30 % <sup>5)</sup>
Output SVM	≤0.7
Power factor λ	0.98 <sup>6)</sup>
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Total harmonic distortion	< 20 % <sup>7)</sup>
U-OUT (working voltage)	< 60 V
Current set	DipSwitch

1) ±7.5%

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

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

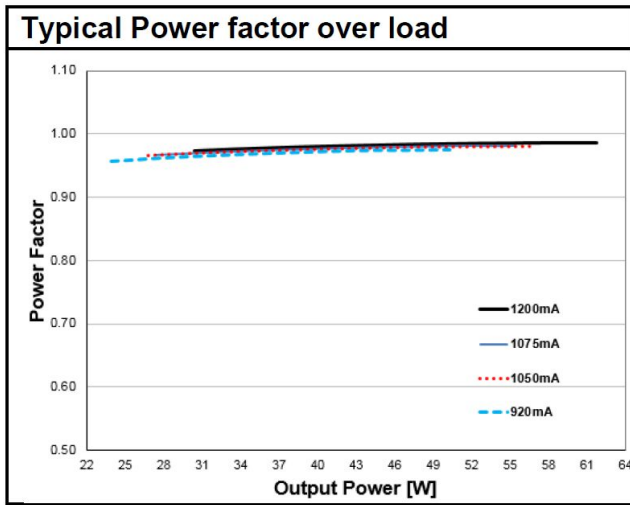
4)  $t_{width} = 180 \mu s$  typical (measured at 50 %  $I_{peak}$ )

5) Ripple average at 100 Hz

6) Full load at 230 V / 50 Hz

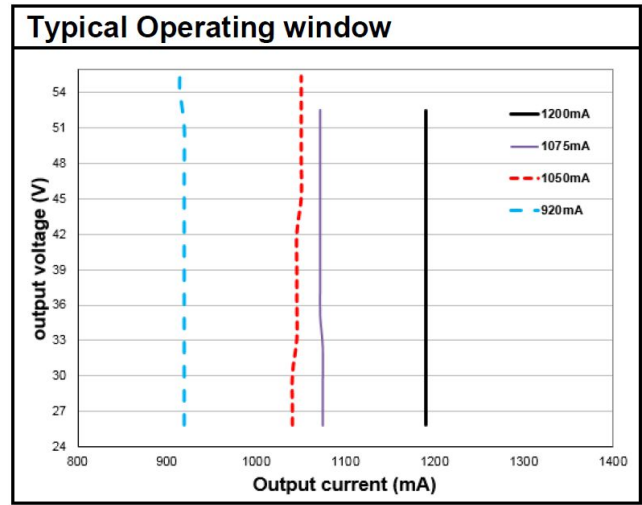
7) At full load, 230 V, 50 Hz / see graphs

## Typical Power Factor v Load



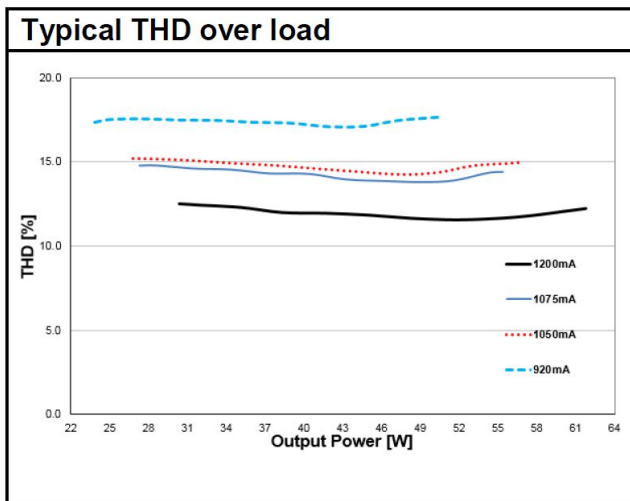
ELEMENT 55/220-240/1200 CS L Typical Power Factor vs. Load

## Operating Window



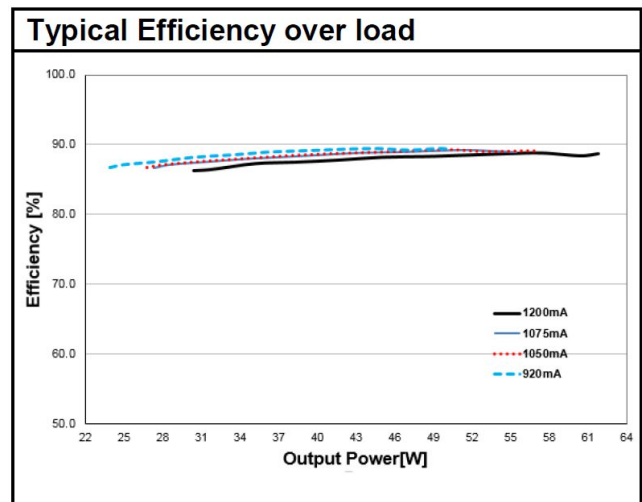
ELEMENT 55/220-240/1200 CS L Operating Window

## Typical THD v Load



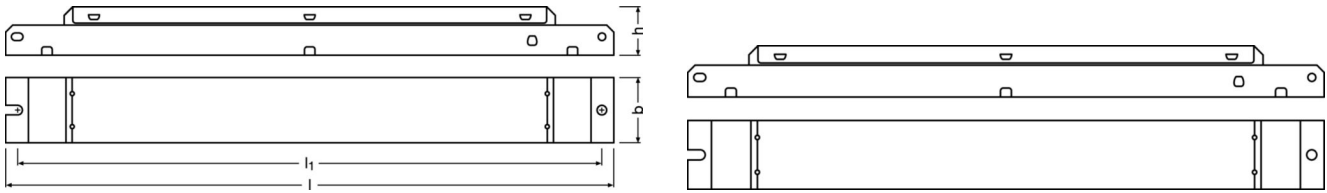
ELEMENT 55/220-240/1200 CS L Typical THD Vs Load

## Typical Efficiency v Load 230 V 50 Hz



ELEMENT 55/220-240/1200 CS L Typical Efficiency vs. Load (230 V / 50 Hz)

## Dimensions & weight



<b>Length</b>	210.0 mm
<b>Height</b>	21.0 mm
<b>Width</b>	30.0 mm
<b>Product weight</b>	145.00 g
<b>Cable cross-section, input side</b>	0.5...1.5 mm <sup>2</sup> / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Cable cross-section, output side</b>	0.5...1.5 mm <sup>2</sup> / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Wire preparation length, input side</b>	8.5...9.5 mm
<b>Wire preparation length, output side</b>	8.5...9.5 mm
<b>Mounting hole spacing, length</b>	200.0 mm

1) Solid or flexible leads

## Colors & materials

<b>Casing material</b>	Metal
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## Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+50 °C
<b>Max.housing temperature in case of fault</b>	110 °C
<b>Maximum temperature at tc test point</b>	80 °C
<b>Permitted rel. humidity during operation</b>	5...85 % <sup>1)</sup>
<b>Temperature range at storage</b>	-40...+85 °C

1) Non-condensing

## Lifespan

<b>ECG lifetime</b>	35000 h / 50000 h <sup>1)</sup>
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1) At maximum  $T_c = 80^\circ\text{C}$  / 10% failure rate, At  $T_c = 70^\circ\text{C}$  / 10% failure rate

## Capabilities

<b>Dimmable</b>	No
<b>Max. cable length to lamp/LED module</b>	2.0 m <sup>1)</sup>
<b>Overload protection</b>	Automatic reversible
<b>Overheating protection</b>	Automatic reversible
<b>Suitable for fixtures with prot. class</b>	I
<b>Type of connection, input side</b>	Push terminal
<b>Type of connection, output side</b>	Push terminal
<b>Constant lumen function</b>	No
<b>Intended for no-load operation</b>	No
<b>No-load proof</b>	Yes
<b>Number of channels</b>	1
<b>Programming interface</b>	Dipswitch
<b>Short-circuit protection</b>	Automatic reversible

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

## Programming

Programming device	DIPswitch
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## Certificates & standards

Type of protection	IP20
Approval marks – approval	CE / ENEC 05 / EAC / BIS / RCM / CCC
Standards	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

## Logistical data

Commodity code	85044083900
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## Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Declaration No. in SCIP database	In work
Date of Declaration	16-09-2024
Primary Article Identifier	4052899553156
SCIP_STATUS	In work
SCIP_ID	

## 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.



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## Download Data

File		
Mandatory Publications	PDF	▶ELEMENT CS L UK DoC 4297439 02 140923
Mandatory Publications	PDF	▶ELEMENT CS L CE 3650277 09 040923

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899553156	ELEMENT 55/220-240/1200 CS L	Shipping carton box 20 Pieces	228 x 138 x 160 mm	5.03 dm <sup>3</sup>	158.90 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

## Disclaimer

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