

## ELEMENT 8/220-240/200

ELEMENT G4 | Compact constant current LED driver – Non dimmable



### Product family features

- Supply voltage: 220...240 V
- Fixed output (no dimming)
- Line frequency: 50 Hz | 60 Hz
- Line voltage: 198...264 V
- According to EN 61347-1, 61347-2-13, 62384
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- SELV

### Product family benefits

- Versatile scope of application due to output power range of up to 42 W
- Safety ensured by OSRAM (SELV)
- Higher quality of light thanks to < 5% output ripple current
- High efficiency
- High compatibility with COBs and discrete LEDs



### Areas of application

- Spot light and down light
- Panels
- Other Indoor LED luminaries
- Suitable for downlights, spotlights and LED panels
- Suitable for indoor SELV installations

## Technical data

### Electrical data

|  |                           |
|--|---------------------------|
| Nominal input voltage                    | 220...240 V               |
| Nominal output current                   | 200 mA                    |
| Nominal output power                     | 4.8...8.4 W <sup>1)</sup> |
| Nominal output voltage                   | 24...42 V                 |
| Maximum output power                     | 8.4 W                     |
| Mains frequency                          | 50/60 Hz                  |
| Input voltage AC                         | 198...264 V               |
| Device power loss                        | 1.84 W <sup>2)</sup>      |
| Efficiency in full-load                  | 82 % <sup>3)</sup>        |
| Galvanic isolation primary/secondary     | SELV                      |
| Inrush current                           | 8.5 A <sup>4)</sup>       |
| Max. ECG no. on circuit breaker 10 A (B) | 85                        |
| Max. ECG no. on circuit breaker 16 A (B) | 136                       |
| Output current tolerance                 | ±7.5 %                    |
| Output PSTLM                             | ≤1                        |
| Output ripple current (100 Hz)           | < 5 %                     |
| Output SVM                               | ≤0.4                      |
| Power factor λ                           | 0.90                      |
| Protective conductor current             | <0.7 mA                   |
| Surge capability (L-N)                   | 1 kV                      |
| Surge capability (L/N-Ground)            | 2 kV <sup>5)</sup>        |
| Total harmonic distortion                | 10 % <sup>6)</sup>        |
| U-OUT (working voltage)                  | 60 V                      |
| Current set                              | Fixed current             |

1) Partial load

2) At 230 V, Input power 10.24 W max.

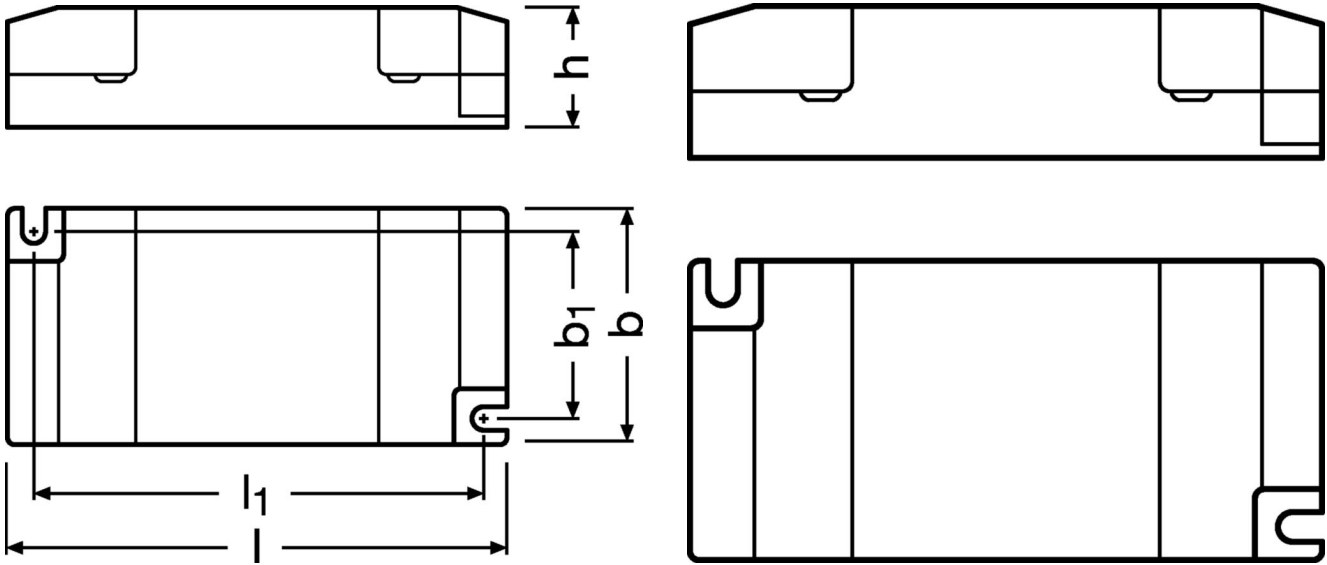
3) at 230 V, 50 Hz

4)  $t_{width} = 7.2 \mu s$  typical (measured at 50 %  $I_{peak}$ )

5) L/N – PE acc to EN 61547 Clause 5.7

6) At full load

## Dimensions & weight



|   |  |
|---|--|
| <b>Length</b>                               | 90.0 mm  |
| <b>Height</b>                               | 22.0 mm  |
| <b>Width</b>                                | 43.0 mm  |
| <b>Product weight</b>                       | 48.00 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>  | 7...8 mm   |
| <b>Wire preparation length, output side</b> | 7...8 mm   |
| <b>Mounting hole spacing, length</b>        | 80.0 mm  |
| <b>Mounting hole spacing, width</b>         | 34.0 mm  |

1) Build in/ Independent

## Colors & materials

|                        |                 |
|------------------------|-----------------|
| <b>Casing material</b> | Plastic housing |
|------------------------|-----------------|

## 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>     | 75 °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> | 30000 h / 50000 h <sup>1)</sup> |
|---------------------|---------------------------------|

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

## Additional product data

|                        |               |
|------------------------|---------------|
| <b>Encapsulated</b>    | No            |
| <b>Predecessor EAN</b> | 4062172167413 |

## 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>                 | Electronic switch off |
| <b>Suitable for emergency lighting</b>        | No                    |
| <b>Suitable for fixtures with prot. class</b> | I / II                |
| <b>Suitable for through-wiring</b>            | No                    |
| <b>Type of connection, input side</b>         | Push terminal         |
| <b>Type of connection, output side</b>        | Push terminal         |
| <b>Intended for no-load operation</b>         | No                    |
| <b>No-load proof</b>                          | Yes                   |
| <b>Number of channels</b>                     | 1                     |
| <b>Short-circuit protection</b>               | Automatic reversible  |

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

## Programming

|                        |              |
|------------------------|--------------|
| Programming device     | not relevant |
| Tuner4TRONIC           | No           |
| Tuner4TRONIC Field App | No           |

## Certificates & standards

|                           |  |
|---------------------------|--|
| Type of protection        | IP20   |
| Approval marks – approval | CE / CCC / RCM / ENEC 25 / UKCA <sup>1)</sup>  |
| Standards                 | Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. to IEC 61000-3-2 / Acc. to IEC 61547 / Acc. to IEC 61000-3-3 |

1) In preparation

## Logistical data

|                |             |
|----------------|-------------|
| Commodity code | 85044083900 |
|----------------|-------------|

## Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |               |
|---|---------------|
| Declaration No. in SCIP database                                      | In work       |
| Date of Declaration   | 29-07-2024    |
| Primary Article Identifier  | 4062172355452 |

### 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.

### Download Data

| File                   |     |  |
|------------------------|-----|--|
| Certificates           | PDF | ▶ ELEMENT G4 ENEC 64142225031702 U6 120723       |
| Certificates           | PDF | ▶ ELEMENT G4 CCC 6 15W build in 2023171002004881 |
| Mandatory Publications | PDF | ▶ ELEMENT G4 CE 4460618 01 280723                |
| Mandatory Publications | PDF | ▶ ELEMENT G4 UK DoC 4460638 01 220923            |
| User instruction       | PDF | ▶ UI ELEMENT G4                                  |



## Logistical Data

| Product code  | Product description   | Packaging unit (Pieces/Unit)     | Dimensions (length x width x height) | Volume               | Gross weight |
|---------------|-----------------------|----------------------------------|--------------------------------------|----------------------|--------------|
| 4062172355452 | ELEMENT 8/220-240/200 | Shipping carton box<br>50 Pieces | 321 x 194 x 138 mm                   | 8.59 dm <sup>3</sup> | 273.00 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

## Disclaimer

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