

## EM FIT 75/220-240/550 D CS L G2 (NEW)

Linear / Area Constant Current – Non dimmable



### Product family features

- Line frequency: 50 Hz | 60 Hz
- Supply voltage: 220...240 V
- Lifetime: up to 100,000 h (temperature at  $T_c = 65^\circ\text{C}$ , max. 10 % failure rate)
- Type of protection: IP20
- Wide output voltage range
- Fixed output (no dimming)

### Product family benefits

- Small, slim white metal housing (W )30 x (H)21 mm
- Flexible current setting (DIPswitch – 4 currents)
- High efficiency and reliability
- Enhanced safety due to overload, overtemperature, short-circuit protection
- High light quality due to low ripple current
- Long lasting and high reliability

### Areas of application

- Linear and area lighting
- Shop lighting
- Offices, Public buildings, Supermarkets
- Industry lighting
- Suitable for luminaires of protection class I and II

## Technical data

### Electrical data

|  |   |
|--|---|
| Nominal input voltage                    | 220...240 V   |
| Mains frequency                          | 50/60 Hz  |
| Input voltage AC                         | 198...264 V   |
| Input voltage DC                         | not relevant  |
| Total harmonic distortion                | < 20 % <sup>1)</sup>  |
| Power factor $\lambda$                   | 0.90C...0.98 <sup>2)</sup>                                      |
| Efficiency in full-load                  | 92 % <sup>3)</sup>  |
| Device power loss                        | 6.5 W <sup>4)</sup>   |
| Networked standby power                  | not relevant  |
| Inrush current                           | 60 A <sup>5)</sup>  |
| Max. ECG no. on circuit breaker 10 A (B) | 8   |
| Max. ECG no. on circuit breaker 16 A (B) | 13  |
| Max. ECG no. on circuit breaker 25 A (B) | 21  |
| Surge capability (L-N)                   | 1 kV  |
| Surge capability (L/N-Ground)            | 2 kV <sup>6)</sup>  |
| Protective conductor current             | 0.5 mA  |
| Nominal output voltage                   | 90...136 V / 90...150 V / 90...188 V / 90...216 V <sup>7)</sup> |
| U-OUT (working voltage)                  | 250 V   |
| Nominal output current                   | 350 mA / 400 mA / 500 mA / 550 mA                               |
| Output current tolerance                 | ±7.5 %  |
| Output ripple current (100 Hz)           | < 10 %  |
| Output PSTLM                             | ≤1  |
| Output SVM                               | ≤0.4  |
| Nominal output power                     | 31.5...75.6 W   |
| Maximum output power                     | 75.6 W  |

1) At full load

2) Full load at 220...240 V<sub>AC</sub>/50 Hz

3) at 230 V, 50 Hz

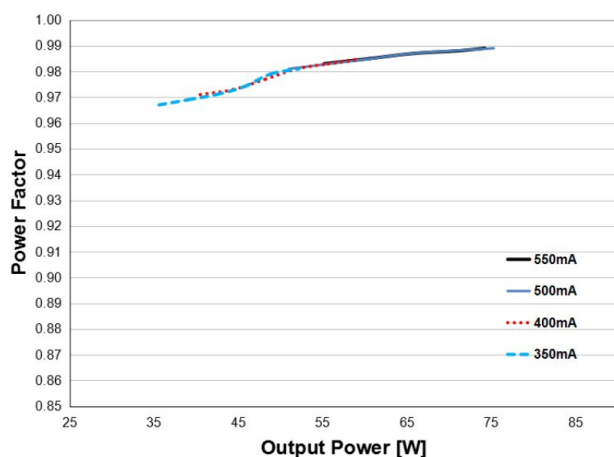
4) At 230 V

5)  $t_{width} = 170 \mu s$  typical (measured at 50 %  $I_{peak}$ )

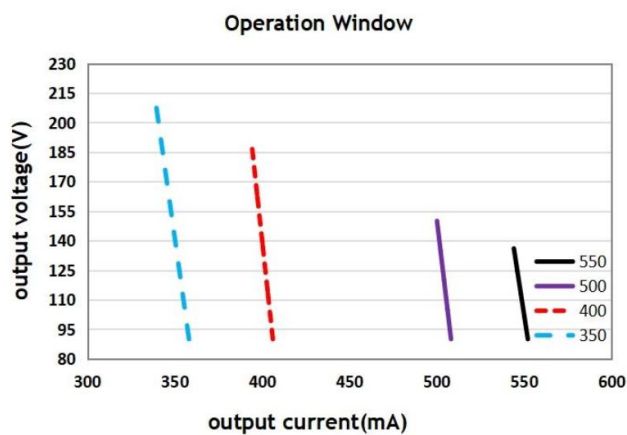
6) L/N – PE acc to EN 61547 Cluase 5.7

7) At 550 mA output / At 500 mA output / At 400 mA output / At 350 mA output

## Typical Power Factor v Load



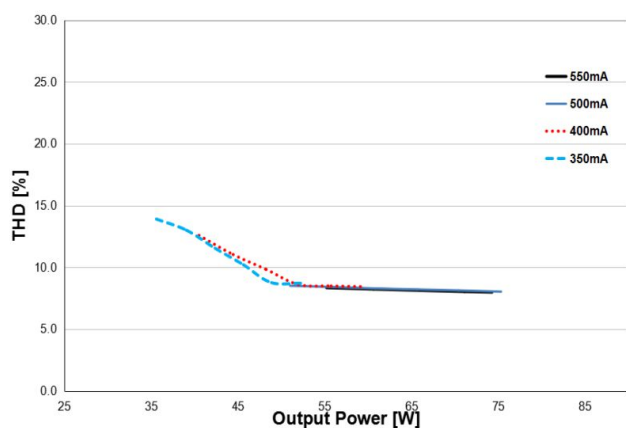
## Operating Window



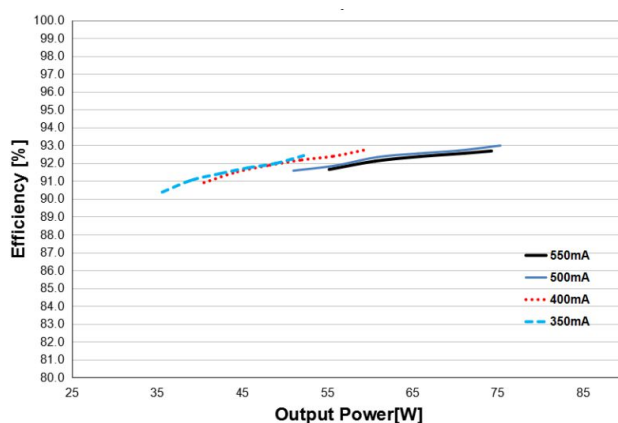
Typical Power factor vs load of EM FIT 75W 550 D CS L G2

Typical Operating window of EM FIT 75W 550 D CS L G2

## Typical THD v Load



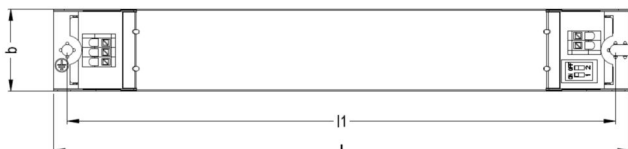
## Typical Efficiency v Load 230 V 50 Hz



Typical THD vs load of EM FIT 75W 550 D CS L G2

Typical Efficiency vs load of EM FIT 75W 550 D CS L G2

## Dimensions & weight



|                                      |  |
|--------------------------------------|--|
| Product weight                       | 133.00 g   |
| Length                               | 210.0 mm   |
| Width                                | 30.0 mm  |
| Height                               | 21.0 mm  |
| Mounting hole spacing, length        | 200.0 mm   |
| Mounting hole spacing, width         | not relevant mm  |
| Cable cross-section, input side      | 0.5...1.5 mm <sup>2</sup> / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup> |
| Cable cross-section, output side     | 0.5...1.5 mm <sup>2</sup> / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup> |
| Wire preparation length, input side  | 7...8 mm   |
| Wire preparation length, output side | 7...8 mm   |

1) Solid or flexible leads

## Colors & materials

|                 |       |
|-----------------|-------|
| Casing material | Metal |
| Product color   | White |

## Temperatures & operating conditions

|  |                        |
|--|------------------------|
| Ambient temperature range                | -25...+50 °C           |
| Maximum temperature at tc test point     | 75 °C                  |
| Max.housing temperature in case of fault | 110 °C                 |
| Temperature range at storage             | -40...+85 °C           |
| Permitted rel. humidity during operation | 5...95 % <sup>1)</sup> |

1) Non-condensing

## Lifespan

|              |                                  |
|--------------|----------------------------------|
| ECG lifetime | 50000 h / 100000 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

|                 |               |
|-----------------|---------------|
| Encapsulated    | No            |
| Predecessor EAN | 4062172219952 |

## Capabilities

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

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

## Programming

|                        |           |
|------------------------|-----------|
| Programming device     | DIPswitch |
| Tuner4TRONIC           | No        |
| Tuner4TRONIC Field App | No        |
| Box programming        | No        |

## Certificates & standards

|                           |   |
|---------------------------|---|
| Approval marks – approval | CE / ENEC / CCC / RCM / TISI / BIS  |
| 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 / CISPR 15/EN 55015 / Acc. to EN 61000-3-3 |
| Type of protection        | IP20  |

## Logistical data

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

## Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |               |
|---|---------------|
| Date of Declaration   | 18-10-2024    |
| Primary Article Identifier  | 6977078992572 |
| Declaration No. in SCIP database                                      | In work       |
| 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.



### Additional product information

- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.
- Indication that the lamp control gear relies upon the luminaire enclosure for protection against accidental contact with live parts.

### Download Data

| File                   |            |  |
|------------------------|------------|--|
| Certificates           | PDF        | ▶ EM FIT CS L G2 CB DE1 68840B1 080724         |
| Certificates           | PDF        | ▶ EM FIT D CS L G2 CCC 2024171002005362 020824 |
| Certificates           | PDF        | ▶ EM FIT CS L G2 ENEC 40058248 080724          |
| CAD data 3-dim         | Compressed | ▶ EM FIT D L G2 CAD3PDF 181024                 |
| CAD data               | Compressed | ▶ EM FIT D L G2 IGS 181024                     |
| CAD data               | Compressed | ▶ EM FIT D L G2 STEP 181024                    |
| Mandatory Publications | PDF        | ▶ EM FIT D CS L G2 CE 4534782 00 160724        |
| User instruction       | PDF        | ▶ UI EM FIT D CS L G2                          |

### Logistical Data

| Product code  | Product description                | Packaging unit<br>(Pieces/Unit)  | Dimensions (length<br>x width x height) | Volume               | Gross weight |
|---------------|------------------------------------|----------------------------------|---|----------------------|--------------|
| 6977078992572 | EM FIT 75/220-240/550<br>D CS L G2 | Shipping carton box<br>20 Pieces | 230 x 156 x 96 mm                       | 3.44 dm <sup>3</sup> | 138.47 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