

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

Linear / Area Constant Current – Non dimmable



### Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Supply voltage: 220...240 V
- Lifetime 50 000 h at tc max
- Type of protection: IP20
- Fixed output (no dimming)
- Low THD <10% @ full load
- Halogen free polycarbonate plastic housing
- Input Surge Protection: DM 1kV, CM 2kV

### 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
- Linear lighting for office, school and public areas
- Suitable for luminaires of protection class I
- Industry
- Emergency lighting
- Build-in Use

## Technical data

### Electrical data

|                                          |                                                 |
|------------------------------------------|-------------------------------------------------|
| Nominal input voltage                    | 220...240 V                                     |
| Mains frequency                          | 50/60 Hz                                        |
| Input voltage AC                         | 220...240 V                                     |
| Input voltage DC                         | 176...276 V                                     |
| Total harmonic distortion                | 10 % <sup>1)</sup>                              |
| Power factor $\lambda$                   | 0.80C...0.95 <sup>2)</sup>                      |
| Efficiency in full-load                  | 92.5 % <sup>3)</sup>                            |
| Device power loss                        | 4.0 W                                           |
| Networked standby power                  | not relevant                                    |
| Inrush current                           | 40.5 A <sup>4)</sup>                            |
| Max. ECG no. on circuit breaker 10 A (B) | 10                                              |
| Max. ECG no. on circuit breaker 16 A (B) | 16                                              |
| Surge capability (L-N)                   | 1 kV                                            |
| Surge capability (L/N-Ground)            | 2 kV <sup>5)</sup>                              |
| Protective conductor current             | 0.5 mA                                          |
| Nominal output voltage                   | 90...216 V                                      |
| U-OUT (working voltage)                  | 250 V                                           |
| Nominal output current                   | 350 mA / 400 mA / 500 mA / 550 mA <sup>6)</sup> |
| Default output current                   | 350 mA                                          |
| Output current tolerance                 | $\pm 7.5$ %                                     |
| Output ripple current (100 Hz)           | 10 % <sup>7)</sup>                              |
| Output PSTLM                             | $\leq 1$ <sup>8)</sup>                          |
| Output SVM                               | $\leq 0.4$                                      |
| Nominal output power                     | 31.5...75.6 W <sup>9)</sup>                     |
| Maximum output power                     | 75.6 W                                          |
| Galvanic isolation primary/secondary     | Non isolated                                    |

1) At full load

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

3) Measured at 100% load and Steady-state temperature in 25°C ambient

4)  $t_{width} = 202 \mu s$  (measured at 50 %  $I_{peak}$ )

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

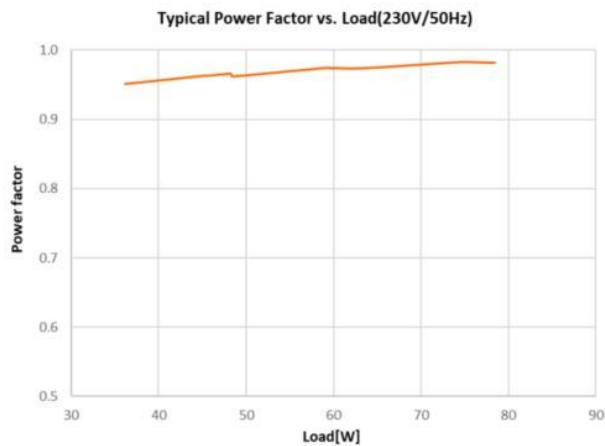
6)  $\pm 7.5\%$

7) At 100% load condition, > 1k Hz (pk-pk)

8) Measured at 230Vac input, 100% load

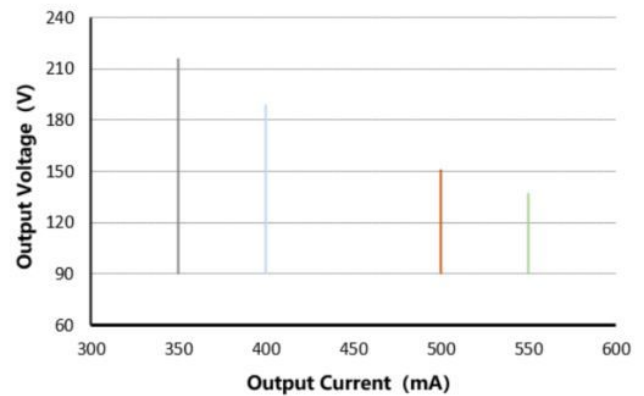
9) Partial load

## Typical Power Factor v Load



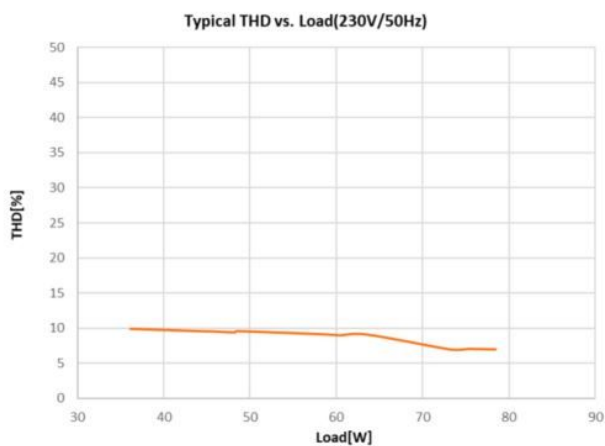
Typical Power factor vs load\_EM FIT 75 D CS L G3

## Operating Window



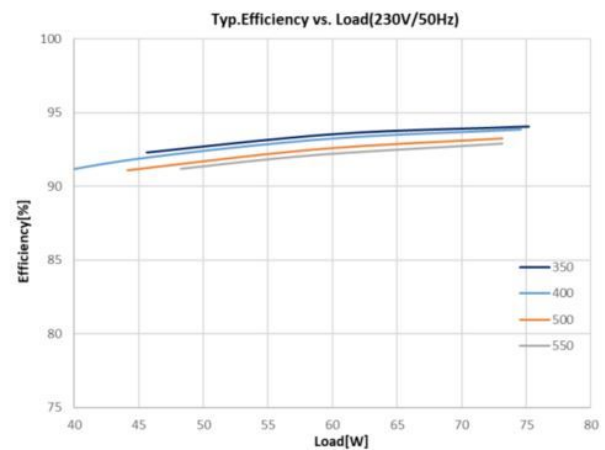
Operating window\_EM FIT 75 DCS L G3

## Typical THD v Load



Typical THD vs load\_EM FIT 75 D CS L G3

## Typical Efficiency v Load 230 V 50 Hz



Typical Efficiency vs load\_EM FIT 75 D CS L G3

## Dimensions & weight



|                                             |                                                                      |
|---------------------------------------------|----------------------------------------------------------------------|
| <b>Product weight</b>                       | 175.00 g                                                             |
| <b>Length</b>                               | 210.0 mm                                                             |
| <b>Width</b>                                | 30.0 mm                                                              |
| <b>Height</b>                               | 21.0 mm                                                              |
| <b>Mounting hole spacing, length</b>        | 200.0 mm                                                             |
| <b>Mounting hole spacing, width</b>         | not relevant mm                                                      |
| <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                                                             |

1) Push-in at 45° angle / Solid and stranded

## Colors & materials

|                        |       |
|------------------------|-------|
| <b>Casing material</b> | Metal |
| <b>Product color</b>   | White |

## Temperatures & operating conditions

|                                                 |                        |
|-------------------------------------------------|------------------------|
| <b>Ambient temperature range</b>                | -30...+55 °C           |
| <b>Maximum temperature at tc test point</b>     | 75 °C                  |
| <b>Max.housing temperature in case of fault</b> | 110 °C                 |
| <b>Temperature range at storage</b>             | -40...+85 °C           |
| <b>Permitted rel. humidity during operation</b> | 5...85 % <sup>1)</sup> |
| <b>Permitted relative humidity at storage</b>   | 5...85 %               |

1) Non-condensing

## Lifespan

|              |                                  |
|--------------|----------------------------------|
| ECG lifetime | 50000 h / 100000 h <sup>1)</sup> |
|--------------|----------------------------------|

1) Measured at 230Vac input, 100% load. 10% failure rate / Measured at 230Vac input. 10% failure rate

## Additional product data

|              |    |
|--------------|----|
| Encapsulated | No |
|--------------|----|

## Capabilities

|                                        |                      |
|----------------------------------------|----------------------|
| Programming interface                  | Dipswitch            |
| Dimmable                               | No                   |
| Constant lumen function                | No                   |
| Max. cable length to lamp/LED module   | 2.0 m                |
| Mains switching cycles                 | 100.000              |
| Suitable for fixtures with prot. class | I                    |
| Suitable for emergency lighting        | Yes                  |
| EL CEAG STAR compatible                | Yes                  |
| EL DC detection selectable             | Yes                  |
| EL EOFi – default value                | 1.0                  |
| Type of connection, input side         | Terminal             |
| Type of connection, output side        | Terminal             |
| Suitable for through-wiring            | No                   |
| 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                  |

## Programming

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

## Certificates & standards

|                           |                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / CCC / RCM / ENEC 10 / EL / VDE                                                           |
| Standards                 | IEC 61347-2-13 / IEC 62384 / IEC 61347-1 / IEC 61547 / IEC 61000-3-2/EN 61000-3-2 / IEC 55015 |
| 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                                                   | 13-07-2026                        |
| Primary Article Identifier                                            | 6937186176646                     |
| Candidate List Substance 1                                            | no declarable substance contained |
| CAS No. of substance 1                                                | no declarable substance contained |
| 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 | ▶ CCC_ELEMENT FIT G3_ZH                         |
| Certificates           | PDF | ▶ CCC_ELEMENT FIT G3_EN                         |
| Certificates           | PDF | ▶ CB_336887_70508                               |
| Certificates           | PDF | ▶ VDE_ENEC 40061455_300-ELEMENT FIT G3          |
| Product Datasheet      | PDF | ▶ EM FIT 75 220-240 550 D CS L CCT              |
| CAD data PDF           | PDF | ▶ EM FIT 75 220-240 550 D CS L CCT              |
| Mandatory Publications | PDF | ▶ EU_9C1-4553967-EN-02_EM FIT xx D CS L G3(CCT) |
| User instruction       | PDF | ▶ UI-G15132011_EM_FIT_D_CS_L_G3_CCT             |

## Logistical Data

| Product code                  | Product description                 | Packaging unit<br>(Pieces/Unit)  | Dimensions (length<br>x width x height) | Volume                | Gross weight |
|-------------------------------|-------------------------------------|----------------------------------|-----------------------------------------|-----------------------|--------------|
| 6937186176646<br>INVENTRONICS | EM FIT 75/220-240/550<br>D CS L CCT | Shipping carton box<br>50 Pieces | 320 x 225 x 153 mm                      | 11.02 dm <sup>3</sup> | 184.28 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.