

EM FIT 40/220-240/800 CS L (NEW)

ELEMENT EM FIT 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
- Wide output voltage range
- Fixed output (no dimming)

Product family benefits

- Small housing design
- Flexible current setting (DIPswitch – 4 currents)
- Enhanced safety due to overload, overtemperature, short-circuit protection
- High efficiency
- Long lasting and high reliability
- High light quality due to low ripple current

Areas of application

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

Technical data

Electrical data

| | |
|------------------------------------------|-------------------------------------------------|
| Nominal input voltage | 220...240 V |
| Nominal output current | 500 mA / 600 mA / 700 mA / 800 mA ¹⁾ |
| Nominal output power | 13.5...40.8 W |
| Nominal output voltage | 27...51 V ²⁾ |
| Maximum output power | 40.8 W |
| Mains frequency | 50/60 Hz |
| Input voltage AC | 198...264 V |
| Device power loss | 6.1 W ³⁾ |
| Efficiency in full-load | 87 % ⁴⁾ |
| Inrush current | 45 A ⁵⁾ |
| Max. ECG no. on circuit breaker 10 A (B) | 14 |
| Max. ECG no. on circuit breaker 16 A (B) | 23 |
| Max. ECG no. on circuit breaker 25 A (B) | 36 |
| Output current tolerance | ±7.5 % |
| Output PSTLM | ≤1 |
| Output ripple current (100 Hz) | < 10 % ⁶⁾ |
| Output SVM | ≤0.4 |
| Power factor λ | 0.95 ⁷⁾ |
| Surge capability (L-N) | 1 kV |
| Surge capability (L/N-Ground) | 2 kV ⁸⁾ |
| Total harmonic distortion | < 20 % ⁹⁾ |
| U-OUT (working voltage) | < 60 V |
| Current set | DipSwitch |

1) ±7.5%

2) At 500/600/700/800 mA output current

3) At 230 V

4) at 230 V, 50 Hz

5) $t_{width} = 130 \mu s$ typical (measured at 50 % I_{peak})

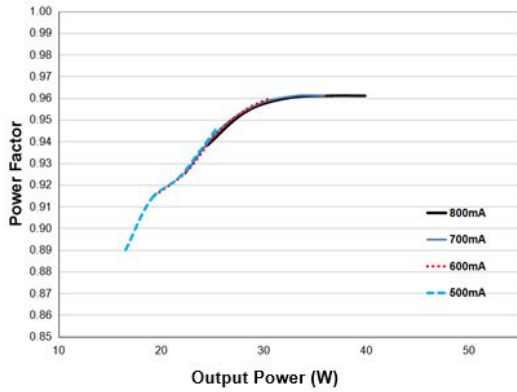
6) Ripple average at 100 Hz

7) Full load at 230 V / 50 Hz

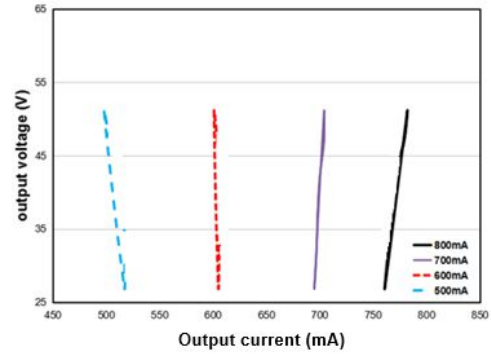
8) L/N – PE acc to EN 61547 Clause 5.7

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

Typical Power Factor v Load



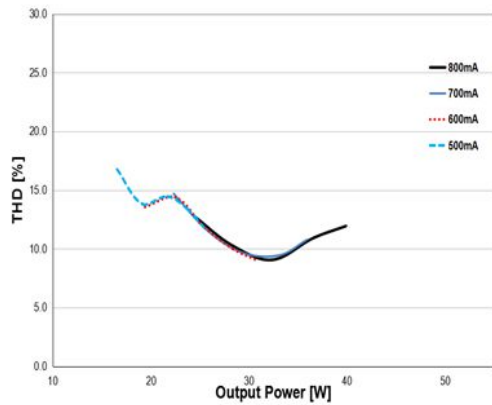
Operating Window



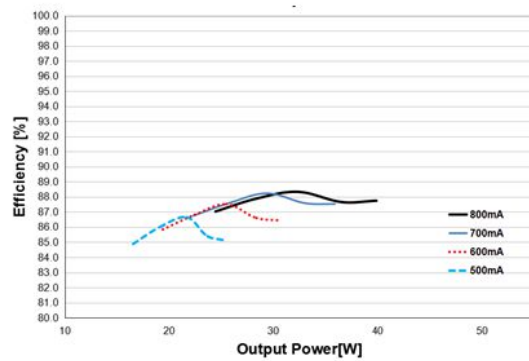
EM FIT 40 220-240 800 CS L Typical Power Factor vs. Load

EM FIT 40 220-240 800 CS L Operating Window

Typical THD v Load



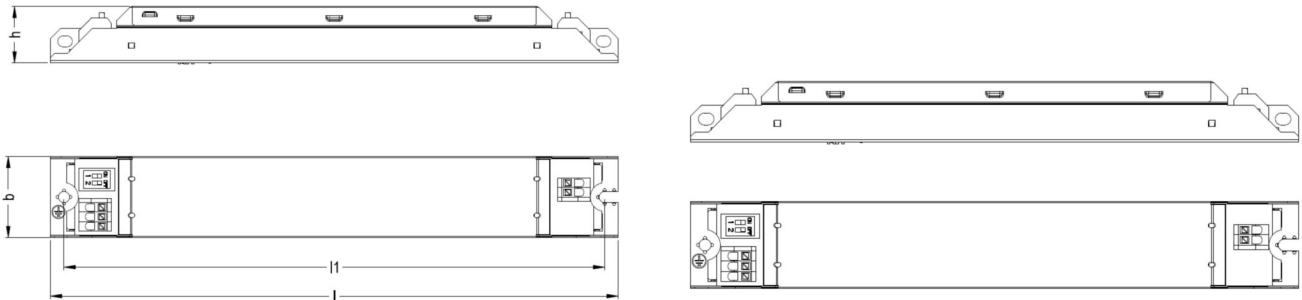
Typical Efficiency v Load 230 V 50 Hz



EM FIT 40 220-240 800 CS L Typical THD vs Load

EM FIT 40 220-240 800 CS L Typical Efficiency vs. Load

Dimensions & weight



| | |
|---------------------------------------------|----------------------------------------------------------------------|
| Length | 210.0 mm |
| Height | 21.0 mm |
| Width | 30.0 mm |
| Product weight | 140.00 g |
| Cable cross-section, input side | 0.5...1.5 mm ² / 0.75...1.5 mm ² ¹⁾ |
| Cable cross-section, output side | 0.5...1.5 mm ² / 0.75...1.5 mm ² ¹⁾ |
| Wire preparation length, input side | 7...8 mm |
| Wire preparation length, output side | 7...8 mm |
| Mounting hole spacing, length | 200.0 mm |

1) Solid or flexible leads

Colors & materials

| | |
|------------------------|-------|
| Casing material | Metal |
|------------------------|-------|

Temperatures & operating conditions

| | |
|-------------------------------------------------|------------------------|
| Ambient temperature range | -20...+50 °C |
| Max.housing temperature in case of fault | 110 °C |
| Maximum temperature at tc test point | 75 °C |
| Permitted rel. humidity during operation | 5...90 % ¹⁾ |
| Temperature range at storage | -40...+85 °C |

1) Non-condensing

Lifespan

| | |
|---------------------|---------------------------------|
| ECG lifetime | 35000 h / 50000 h ¹⁾ |
|---------------------|---------------------------------|

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 |
|---------------------|----|

Capabilities

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

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

Programming

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

Certificates & standards

| | |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Type of protection | IP20 |
| Approval marks – approval | CE / ENEC / RCM / EAC / CCC / UKCA |
| 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 |

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 | 17-06-2024 |
| Primary Article Identifier | 4062172219990 |
| SCIP_STATUS | In work |

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 | ▶ OT constant current EAC DE PA01 B 34987 21 071221 |
| Certificates | PDF | ▶ EM FIT D CS L & CS L ENEC 35 122751 03 200524 |
| Certificates | PDF | ▶ EM FIT CS L NSW 27964 2 |
| Mandatory Publications | PDF | ▶ EM FIT CS L CE 4332115 04 080823 |
| Mandatory Publications | PDF | ▶ EM FIT CS L UK DoC 4332152 02 220923 |
| User instruction | PDF | ▶ ELEMENT LED Power Supply |

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|-------------------------------|----------------------------------|--------------------------------------|----------------------|--------------|
| 4062172219990 | EM FIT 40/220-240/800 CS L | Shipping carton box 20 Pieces | 375 x 250 x 75 mm | 7.03 dm ³ | 161.70 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.