

## EM FIT 60/220-240/1A2 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	900 mA / 1050 mA / 1100 mA / 1200 mA <sup>1)</sup>
Nominal output power	24.3...61.2 W
Nominal output voltage	27...51 V <sup>2)</sup>
Maximum output power	61.2 W
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Device power loss	7.7 W <sup>3)</sup>
Efficiency in full-load	88 % <sup>4)</sup>
Inrush current	50 A <sup>5)</sup>
Max. ECG no. on circuit breaker 10 A (B)	13
Max. ECG no. on circuit breaker 16 A (B)	20
Max. ECG no. on circuit breaker 25 A (B)	32
Output current tolerance	±7.5 %
Output PSTLM	≤1
Output ripple current (100 Hz)	< 10 % <sup>6)</sup>
Output SVM	≤0.4
Power factor λ	0.95 <sup>7)</sup>
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV <sup>8)</sup>
Total harmonic distortion	< 20 % <sup>9)</sup>
U-OUT (working voltage)	< 60 V
Current set	DipSwitch

1) ±7.5%

2) At 900/1050/1100/1200 mA output current

3) At 230 V

4) at 230 V, 50 Hz

5)  $t_{width} = 140 \mu s$  typical (measured at 50 %  $I_{peak}$ )

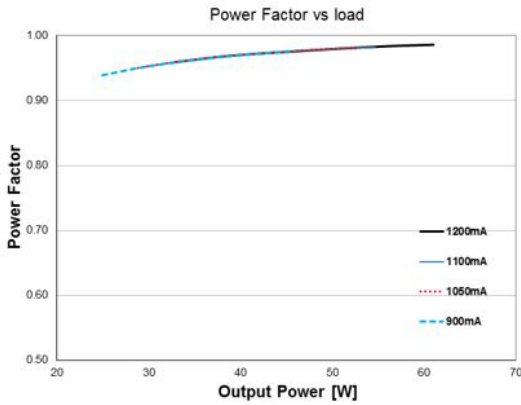
6) Ripple average at 100 Hz

7) Full load at 230 V / 50 Hz

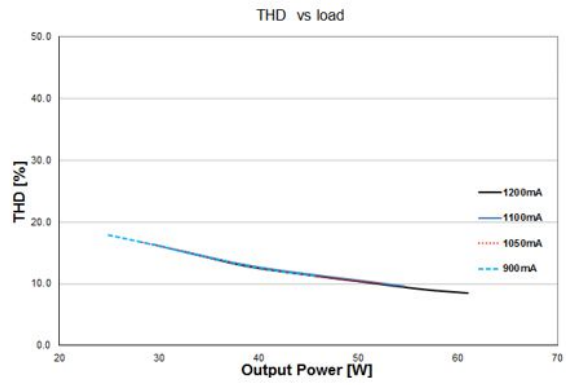
8) L/N – PE acc to EN 61547 Cluase 5.7

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

## Typical Power Factor v Load



## Typical THD v Load

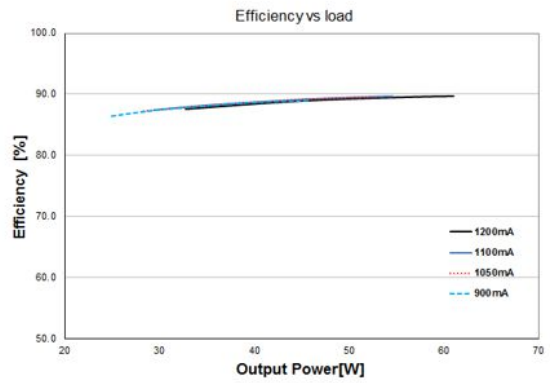
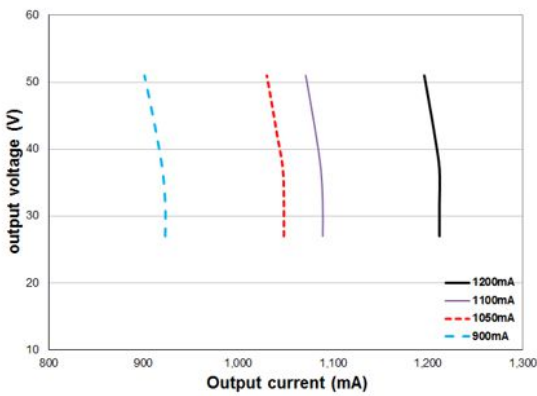


EM FIT 60 220-240 1A2 CS L Typical Power Factor vs. Load

EM FIT 60 220-240 1A2 CS L Typical THD vs Load

## Typical Efficiency v Load 230 V 50 Hz

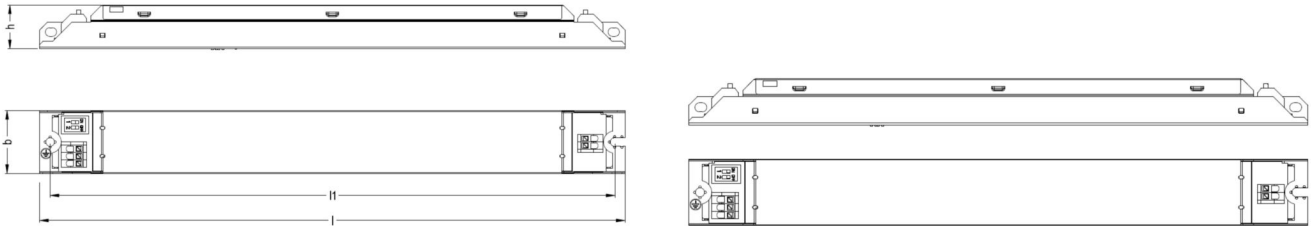
## Typical Efficiency v Load 230 V 50 Hz



EM FIT 60 220-240 1A2 CS L Operating Window

EM FIT 60 220-240 1A2 CS L Typical Efficiency vs. Load

## Dimensions & weight



<b>Length</b>	280.0 mm
<b>Height</b>	21.0 mm
<b>Width</b>	30.0 mm
<b>Product weight</b>	190.00 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>	270.0 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>	75 °C
<b>Permitted rel. humidity during operation</b>	5...90 % <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  $T_c = 75^\circ\text{C}$  / 10% failure rate / At maximum  $T_c = 65^\circ\text{C}$  / 10% failure rate

## Additional product data

<b>Encapsulated</b>	No
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## 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>	Terminal
<b>Type of connection, output side</b>	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

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

## Certificates & standards

Type of protection	IP20
Approval marks – approval	CE / CCC / EAC / ENEC / RCM / 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
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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	17-06-2024
Primary Article Identifier	4062172220019
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.



## 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
4062172220019	EM FIT 60/220-240/1A2 CS L	Shipping carton box 20 Pieces	375 x 320 x 75 mm	9.00 dm <sup>3</sup>	218.95 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.