### EM FIT 18/220...240/350 CS L

### 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<sub>c</sub> 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

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### Areas of application

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

Specifications are subject to changes without notice.

### **Technical data**

### **Electrical data**

Manufact to a final factor	000 0401/		
Nominal input voltage	220240 V		
Mains frequency	50/60 Hz		
Input voltage AC	198264 V		
Current set	DipSwitch		
Total harmonic distortion	< 20 % <sup>1)</sup>		
Power factor λ	0.95 <sup>2)</sup>		
Efficiency in full-load	84 % <sup>3)</sup>		
Device power loss	3.4 W <sup>4)</sup>		
Inrush current	35 A <sup>5)</sup>		
Max. ECG no. on circuit breaker 10 A (B)	30		
Max. ECG no. on circuit breaker 16 A (B)	48		
Surge capability (L/N-Ground)	2 kV <sup>6)</sup>		
Surge capability (L-N)	1 kV		
Nominal output voltage	2751 V <sup>7)</sup>		
U-OUT (working voltage)	< 60 V		
Nominal output current	200 mA / 250 mA / 300 mA / 350 mA <sup>8)</sup>		
Output current tolerance	±7.5 %		
Output ripple current (100 Hz)	< 10 % <sup>9)</sup>		
Output PSTLM	≤1		
Output SVM	≤0.4		
Nominal output power	5.417.85 W		
Maximum output power	17.8 W		
Galvanic isolation	SELV		

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

2) Full load at 230 V / 50 Hz

3) at 230 V, 50 Hz

4) At 230 V

5) t  $_{width}$  = 80 µs typical (measured at 50 % I  $_{peak}$ ) 6) L/N – PE acc to EN 61547 Cluase 5.7

7) At 200/250 mA output current / At 300/350 mA output current

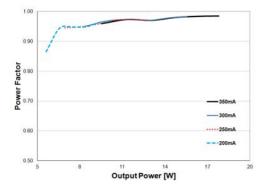
8) ±7.5%

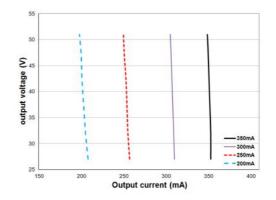
9) Ripple average at 100 Hz

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### Typical Power Factor v Load



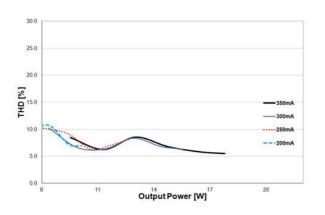




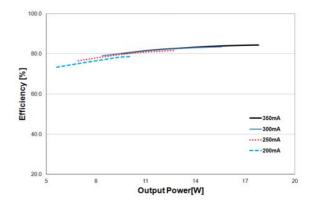
EM FIT 18 220-240 350 CS L Typical Power Factor vs. Load

EM FIT 18 220-240 350 CS L Operating Window

### Typical THD v Load



Typical Efficiency v Load 230 V 50 Hz



EM FIT 18 220-240 350 CS L Typical THD vs Load

### EM FIT 18 220-240 350 CS L Typical Efficiency vs. Load

### **Dimensions & weight**









Length	210.0 mm			
Width	30.0 mm			
Height	21.0 mm			
Mounting hole spacing, length	200.0 mm			
Cable cross-section, input side	0.51.5 mm <sup>2</sup> / 0.751.5 mm <sup>2</sup> <sup>1)</sup>			
Cable cross-section, output side	0.51.5 mm <sup>2</sup> / 0.751.5 mm <sup>2</sup> <sup>1)</sup>			
Wire preparation length, input side	78 mm			
Wire preparation length, output side	78 mm			
Product weight	140.00 g			

1) Solid or flexible leads

### **Colors & materials**

Casing material	Metal

### **Temperatures & operating conditions**

Ambient temperature range	-20+50 °C
Maximum temperature at tc test point	65 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40+85 °C
Permitted rel. humidity during operation	590 % <sup>1)</sup>

1) Non-condensing

#### Lifespan

ECG lifetime

35000 h / 50000 h <sup>1)</sup>

1) At maximum T<sub>c</sub> = 65°C / 10% failure rate / At maximum T<sub>c</sub> = 60°C / 10% failure rate

### Additional product data

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Encapsulated	No		
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	1		
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 / 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			
Type of protection	IP20			
Protection class	1			

### Logistical data

Commodity code 85044083900
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### **Environmental information**

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)			
Date of Declaration 24-03-2024			
Primary Article Identifier	4062172219976		
Declaration No. in SCIP database	In work		

### **Download Data**

File					
Certificates	PDF	OT constant current EAC DE PA01 B 34987 21 071221			
Certificates	PDF	EM FIT CS L CB NL 74845 071221			
Certificates	PDF	EM FIT CS L&D CS L ENEC 35 120653 071221			
Certificates	PDF	EM FIT 18 CS L CCC 2021171002004173 071221			
Certificates	PDF	NSW27964 2 certificate of EM FIT CS L			
Mandatory Publications	PDF	EM FIT CS L CE 4332115 161023			
Mandatory Publications	PDF	EM FIT CS L UK DoC 4332152 090821			
User instruction	PDF	ELEMENT LED Power Supply			

### 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.

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172219976	EM FIT 18/220240/350 CS L	Shipping carton box 20 Pieces	375 x 250 x 75 mm	7.03 dm³	3234.00 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.