# EM FIT 60/220...240/350 D CS L

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

# Product family benefits

- Small housing design
- 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



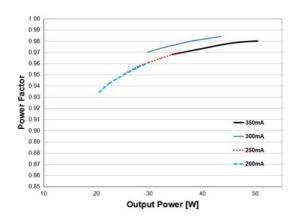
#### Technical data

#### **Electrical data**

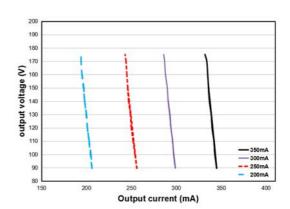
	202 2421
Nominal input voltage	220240 V
Mains frequency	50/60 Hz
Input voltage AC	198264 V
Current set	DipSwitch
Total harmonic distortion	< 20 % <sup>1)</sup>
Power factor λ	≥ 0.95 <sup>2)</sup>
Efficiency in full-load	91 % <sup>3)</sup>
Device power loss	6.0 W <sup>4)</sup>
Inrush current	40 A <sup>5)</sup>
Max. ECG no. on circuit breaker 10 A (B)	13
Max. ECG no. on circuit breaker 16 A (B)	21
Surge capability (L/N-Ground)	2 kV <sup>6)</sup>
Surge capability (L-N)	1 kV
Nominal output voltage	90175 V <sup>7)</sup>
U-OUT (working voltage)	< 250 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	1861.25 W
Maximum output power	61.2 W
Galvanic isolation	Non isolated

- 1) At full load
- 2) Full load at 220...240  $V_{\rm AC}^{\rm}/50~{\rm Hz}$
- 3) at 230 V, 50 Hz
- 4) At 230 V
- 5) t  $_{\rm width}$  = 170  $\mu s$  (measured at 50 % I  $_{\rm peak}$ ) 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

#### Typical Power Factor v Load

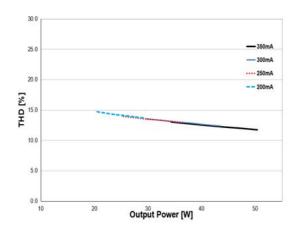


# **Operating Window**



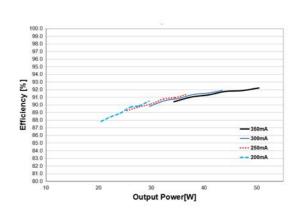
EM FIT 60 220-240 350 D CS L Typical Power Factor vs. Load

Typical THD v Load



EM FIT 60 220-240 350 D CS L Operating Window

Typical Efficiency v Load 230 V 50 Hz



EM FIT 60 220-240 350 D CS L Typical THD vs Load

EM FIT 60 220-240 350 D CS LTypical 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 mm² / 0.751.5 mm² <sup>1)</sup>
Wire preparation length, input side	78 mm
Wire preparation length, output side	78 mm
Product weight	130.00 g

<sup>1)</sup> Solid or flexible leads

# **Colors & materials**

Cooling motorial	Motel
Casing material	Metal

#### **Temperatures & operating conditions**

Ambient temperature range	-20+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	590 % <sup>1)</sup>

<sup>1)</sup> Non-condensing



# **Expected Lifetime**

Product name			
	ECG ambient temperature [ta]		
EM FIT 60/220240/350 D CS	Temperature at tc-point [°C]	75	
_	Lifetime [h]		

# Lifespan

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

<sup>1)</sup> At maximum  $T_c = 65^{\circ}C / 10\%$  failure rate / At maximum  $T_c = 60^{\circ}C / 10\%$  failure rate

# Additional product data

Encapsulated	No
Ziioapoulatoa	110

# 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

<sup>1)</sup> 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 / UKCA / RCM / EAC / TISI	
Standards	Acc. to IEC 61000-3-2 / Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 61547 / Acc. to IEC 62384 / CISPR 15/EN 55015
Type of protection	IP20
Protection class	1

# Logistical data

Commodity code	85044083900

#### **Environmental information**

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	24-03-2024
Primary Article Identifier	4062172219938
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 D CS L CB NL 73951 M1 071221		
Certificates	PDF	►EM FIT CS L&D CS L ENEC 35 120653 071221		
Certificates	PDF	►EM FIT 60 75 D CS L CCC 2021171002004162 071221		
Certificates	PDF	►NSW27963 2 certificate of EM FIT D CS L		
Mandatory Publications	PDF	►EM FIT D CS L CE 4332160 161023		
Mandatory Publications	PDF	►EM FIT D CS L UK DoC 4332161 280721		
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
4062172219938	EM FIT 60/220240/350 D CS L	Shipping carton box 20 Pieces	375 x 250 x 75 mm	7.03 dm³	3034.00 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.