

## IT FIT 40/220-240/1A0 CS T-G (NEW)

ICUTRONICS FIT CS Track | Compact constant current LED driver – Non dimmable



### Product family features

- AC Supply Voltage 220-240 Vac
- Line frequency: 50 Hz | 60 Hz
- Line voltage: 198...264 V
- SELV LED driver in track adaptor
- Lifetime 50 000 h at tc max
- Dip-switches for easy output current selection
- Low THD <10% @ full load
- Low LF-ripple < 5%

### Product family benefits

- Compact size for miniaturized track light luminaire design
- High light quality due to low ripple current
- Three colors available: White, Grey, Black
- High flexibility due to eight different output currents
- High efficiency (up to 90%)

## Areas of application

- Shops
- Retail outlets
- Public buildings
- Suitable for luminaires of protection class II
- Suitable for three circuits system

## Technical data

### Electrical data

Nominal input voltage	220...240 V
Nominal output current	700 mA / 750 mA / 800 mA / 850 mA / 900 mA / 950 mA / 1000 mA / 1050 mA
Nominal output power	18.9...44.1 W
Nominal output voltage	27...42 V
Maximum output power	44.1 W
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	not relevant
Default output current	1050 mA
Device power loss	4.9 W <sup>1)</sup>
Efficiency in full-load	90 % <sup>2)</sup>
Galvanic isolation primary/secondary	SELV
Inrush current	24.8 A <sup>3)</sup>
Max. ECG no. on circuit breaker 10 A (B)	23
Max. ECG no. on circuit breaker 16 A (B)	37
Output current tolerance	±5 %
Output PSTLM	≤1
Output ripple current (100 Hz)	3 %
Output SVM	≤0.4
Power factor λ	0.96 <sup>4)</sup>
Protective conductor current	<0.7 mA
Surge capability (L-N)	1 kV <sup>5)</sup>
Surge capability (L/N-Ground)	2 kV <sup>6)</sup>
Total harmonic distortion	< 10 % <sup>7)</sup>
U-OUT (working voltage)	60 V
Current set	not relevant

1) At 230 V, Input power 49 W max.

2) at 230 V, 50 Hz

3)  $t_{width} = 104 \mu s$  typical (measured at 50 %  $I_{peak}$ )

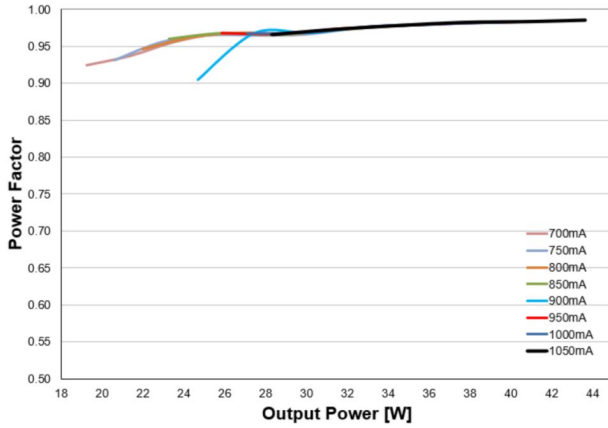
4) Full load at 230 V / 50 Hz

5) L/N

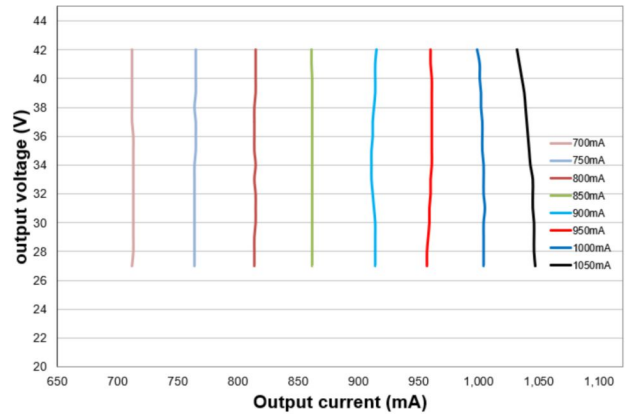
6) L/N – PE acc to EN 61547 (>15 pulses)

7) Full load, 230V, 50 Hz

## Typical Power Factor v Load



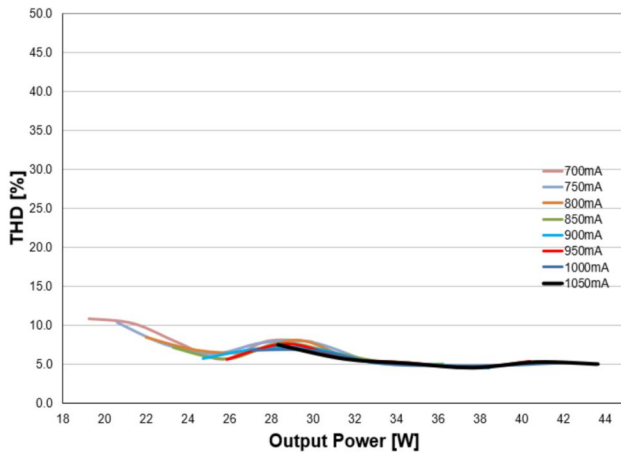
## Operating Window



IT FIT 40W CS Track Typical Power factor VS load

IT FIT 40W CS Track Typical Operating window

## Typical THD v Load



## Typical Iout v Rset LEDset2 mode

	700	750	800	850	900	950	1000	1050
Iout [A]	700	750	800	850	900	950	1000	1050
U min [V]	27	27	27	27	27	27	27	27
U max [V]	42	42	42	42	42	42	42	42
P min [W]	18.9	20.25	21.6	22.95	24.3	25.65	27	28.35
P max [W]	29.4	31.5	33.6	35.7	37.8	39.9	42	44.1
Ta [°C]	35	35	35	35	35	35	35	35
Tc [°C]	80	80	80	80	80	80	80	80
Line Current, nominal @230V [mA]	150	162	172	185	194	206	214	225

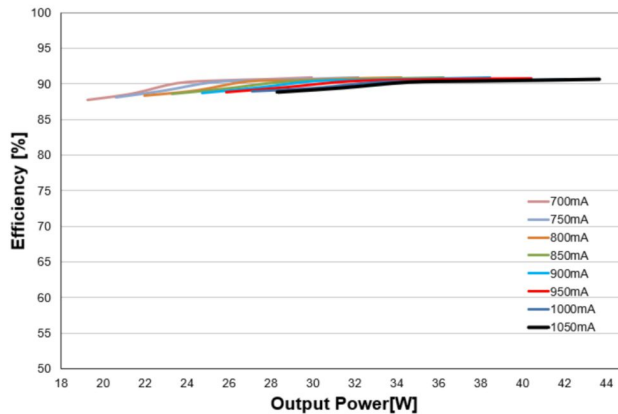
IT FIT 40W CS Track Typical THD VS load

IT FIT 40W CS Rated output power and current sets

Typical Iout v Rset LEDset2 mode

PIN1	PIN2	PIN3	Iout(mA)
OFF	OFF	OFF	700
ON	OFF	OFF	750
OFF	ON	OFF	800
ON	ON	OFF	850
OFF	OFF	ON	900
ON	OFF	ON	950
OFF	ON	ON	1000
ON	ON	ON	1050

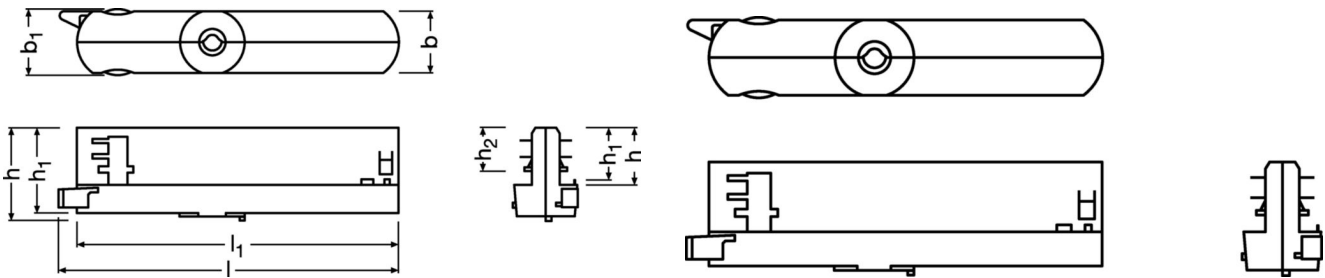
Typical Efficiency v Load 230 V 50 Hz



IT FIT 40W CS Current selection

IT FIT 40W CS Track Typical Efficiency VS load

## Dimensions & weight



<b>Length</b>	167.0 mm
<b>Height</b>	46.0 mm
<b>Width</b>	33.0 mm
<b>Product weight</b>	110.00 g
<b>Cable cross-section, output side</b>	0.5...1.5 mm <sup>2</sup>
<b>Cable/wire length, output side</b>	2000 mm
<b>Wire preparation length, output side</b>	7...8 mm

## Colors & materials

<b>Casing material</b>	Plastic
<b>Product color</b>	GREY RAL 7040

## Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+35 °C
<b>Max.housing temperature in case of fault</b>	110 °C
<b>Permitted rel. humidity during operation</b>	5...85 % <sup>1)</sup>
<b>Temperature range at storage</b>	-20...80 °C <sup>2)</sup>

1) Maximum 56 days/year at 85 %

2) Cool down before operating

## Lifespan

<b>ECG lifetime</b>	50000 h <sup>1)</sup>
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1) At maximum  $T_c = 80^\circ\text{C}$  / 10% failure rate

## Additional product data

<b>Encapsulated</b>	No
<b>Predecessor EAN</b>	4062172131858

## 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 emergency lighting</b>	No
<b>Suitable for fixtures with prot. class</b>	II
<b>Type of connection, input side</b>	not relevant
<b>Type of connection, output side</b>	Push terminal
<b>Intended for no-load operation</b>	No
<b>No-load proof</b>	Yes
<b>Number of channels</b>	1
<b>Short-circuit protection</b>	Automatic reversible

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

## Programming

Programming device	DIPswitch
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## Certificates & standards

Type of protection	IP20
Approval marks – approval	CE / ENEC / RCM / CQC / UKCA
Standards	Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. to CISPR 15 / Acc. to IEC 61000-3-2 / Acc. to IEC 61547

## 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	30-05-2024
Primary Article Identifier	4062172379922
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.
- The max. mechanical loading  $F_{max}$  for the track driver mounted on the ceiling is 50N, which should be intended as the whole system inclusive of the weight of luminaires and accessories.
- The max. mechanical loading  $F_{max}$  for the track driver mounted on the wall is 25N, which should be intended as the whole system inclusive of the weight of luminaires and accessories.

## Download Data

File		
Certificates	PDF	▶IT FIT CS Track ENEC 35 130506
CAD data 3-dim	Compressed	▶CAD of IT FIT CS T
Mandatory Publications	PDF	▶IT FIT CS T CE 4507977 220923
Mandatory Publications	PDF	▶IT FIT CS T UK DoC 4507979 220923
Mandatory Publications	PDF	▶IT FIT 40 CS T ACMA 50 106 964 103 231023
User instruction	PDF	▶IT FIT CS Track CB User Instructions

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172379922	IT FIT 40/220-240/1A0 CS T-G	Shipping carton box 20 Pieces	378 x 187 x 118 mm	8.34 dm <sup>3</sup>	124.95 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.