OT FIT 15/220-240/350 CS

Constant current LED driver 250 mA – 300 mA – 350 mA

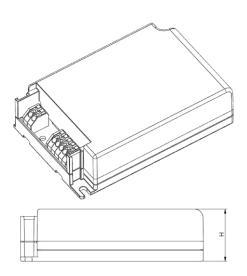
The reliable choice for the essential lighting: based on the well tested Quicktronic® core and compact housing fits in all spot and downlights luminaires.

Benefits

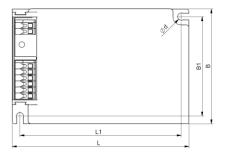
Three fixed selectable output currents
Easy current selection using a wire bridge
Long lasting and high reliability
Suitable for emergency lighting units
Built-in and independent mounting (with opt. kit)
Suitable for class I and class II luminaires

Applications

Office - industrial - shop



L	103mm
В	67mm
Η	29,5mm



Housing material: plastic, white.

Approval marks



Released by xxxxx 2013

Product Features

- 3 output currents 250/300/350 mA
- Default output current is 350 mA
- Wire bridge to select the current
- SELV equivalent 27 54 V
- Output power up to 19 W
- Mains voltage 220 240 V
- Suitable for emergency lighting

- Overload protection
- Overtemperature protection
- Hot plug protection
- 50'000 h lifetime at $t_c = 75$ °C
- Case temperature up to °C
- Wide t_a range -25 +50 °C
- 5 years guarantee

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Electrical Specifications

	Item	Value	Unit	Remarks
	Nominal voltage	220 – 240	V	
	Nominal frequency	0 / 50 - 60	Hz	Incl. DC or pulse DC
	AC voltage range	198 – 264	V	
	DC voltage range	176 – 276	V	DC or pulse DC (>198V for starting)
	Maximum voltage	320	Vac	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	0.12	Α	- · · · · · · · · · · · · · · · · · · ·
	Total Harmonic Distortion (THD)	< 10	%	Full load, 220 – 240 V, 50 Hz / see graphs
INPUT	Power factor	> 0.95		Full load, 220 – 240 V, 50 Hz / see graphs
볼	Efficiency	> 83	%	Full load, 220 – 240 V, 50 Hz / see graphs
_	Power losses	3.5	W	Maximum, full load
	No-load power	n/a	W	Load switching on output side is safe but not permitted
	Stand-by power	n/a	W	Unit is not dimmable/controllable
	Protection class	II		Suitable for class I and II luminiares
	Inrush current	24	A pk	Max, th = 174 μs
	Max. units per circuit breaker	B16: 28; B10: 17		I max = 24 A Th = 174 μs
	Leakage current	n/a	mA	
	Nominal voltage range	27 – 54	V	
	Maximum voltage	60	V	No load protection put output down to roughly 12 V
⊨	Nominal current range	250 / 300 / 350	mΑ	
OUTPUT	Current accuracy	+/- 10	%	For each single operating points of the output characteristic
5	Current ripple	< 10	%	Ripple / average @ 100 Hz, full load
0	Nominal power range	7 – 19	W	
	Maximum power		W	
	Galvanic isolation	SELV equivalent		Output to mains - Touch current < 0.35 mA
'n	Dimming control	no		Not dimmable
DIMMING	Dimming range	n/a		
₹	Dimming technique	n/a		
€	Frequency	n/a		
	Galvanic isolation	n/a		
	Ambient temperature range t _a	-25+50	°C	
	Maximum case temperature t _c	75	°C	Measured on t _c point indicated of the product label
≒	Max. case temp. in fault condition		°C	
鱼	Storage temperature range	-25+75	°C	Cool down before operating
⋛	Relative humidity	5 85	%	Not condensing
õ	Surge transient protection	1	kV	L/N acc to. EN 61547-5.7
ENVIRONMENT	Environmental rating	Indoor		
Ä	IP rating	IP 20		
_	Mains switching cycles	> 100'000		4 75°C 0.20/ / 1,000 h failure rate
	Expected lifetime	50'000 100'000	h	$t_c = 75^{\circ}\text{C}$, 0.2% / 1'000 h failure rate $t_c = 65^{\circ}\text{C}$, 0.1% / 1'000 h failure rate
		100 000		t _c = 05 C, 0.170 / 1 000 H fallule fale

Protections

Overtemperature, Overload, No load, Short-circuit, Input overvoltage, Output overvoltage, Output undervoltage See remarks on page 4.

Wiring Diagram

Edition: 10 June 2013

 Input

 Gray
 1 - Mains

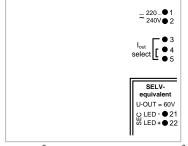
 Gray
 2 - Mains

 White
 3 - CS 250 mA

 White
 4 - CS 300 mA

 White
 5 - CS common

CS wire lenghth: 30 cm max



Output

Black 21 – LED -Red 22 - LED +

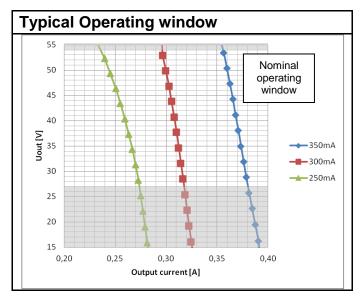
Load wires length: 2m max.

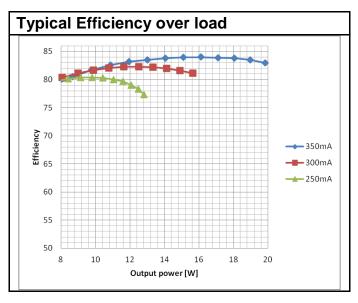
- Wires cross section: massive leads 0.2-1,5 mm² / flexible leads 0,2 1,5 mm²
- Wire peeling length: 8,5-9,5 mm

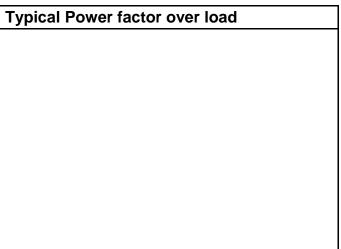
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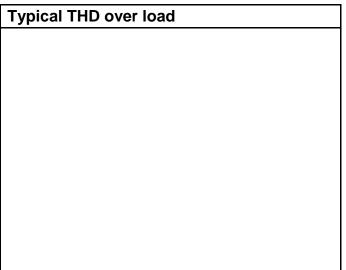
 Input side (connectors 1,2,3,4,5) are NOT isolated from mains. For safety reasons, current selection is allowed only with disconnected mains

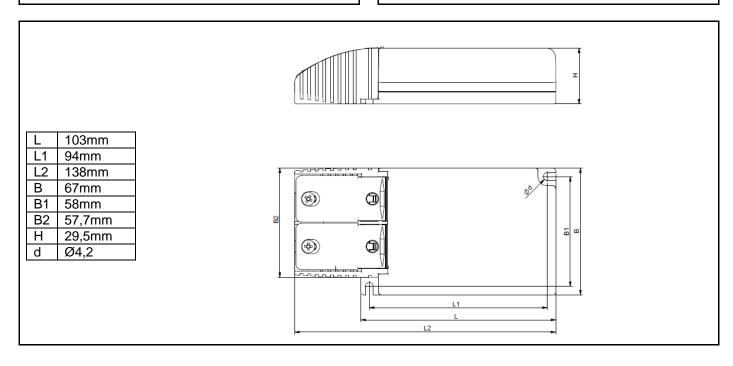
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Remarks

- Input over voltage protection: mains up to 320 Vac, for one hour maximum, will not destroy both the unit and the load; shut down of load might occur in this condition.
- Output short circuit protection: short circuit current is limited to approx. 1 A without damage to the unit, for unlimited time. Be sure the load is designed to withstand the short circuit current as well.
- Output overload protection: the unit is intrinsically protected against over loading because the output voltage is limited.
- Output over voltage protection: shut down of load happens if U out exceeds 60V; mains switchover is needed to restart the unit.
- Output under voltage operation: the unit is not damaged if the load voltage is lower than 27V, but the load current increases up to the short circuit value, see typical operating window graph for details. Be sure the load is safely operated if this event might occur.
- **No load operation:** the unit is not damaged in this condition; the output voltage is lower than 2V, which enables a safe LED load connection, but mains switchover is needed to power the load.
- Over temperature protection: the unit is protected against temporary overheating by automatic reduction of the output power. If tc exceed 85°C approx. the output current is reduced to the lowest nominal value (250 mA);

The protection is automatically reversible, without mains switchover.

- Touch current: lower than 0.35 mA, according to EN 60598-1 ann. G and EN 61347-a ann. A
- Switchover time: lower than 0.5 s, both AC and DC mains.
- Output power hold time: > 4 ms, in case of mains dips.
- Emergency lighting: this LED power supply is suitable for emergency lighting luminaires acc. to EN 60598-2-22, with efficiency output factor of 0.75 and duration time of 2 h at least.
- . HOT Plug: connection of LED on output is allowed without damage of LED. LED turns on after restart.
- Not suitable to be used with a switch on the output to turn on/off the LEDs

Standards

EN 61347-1 EN 61347-2-13 EN 55015 EN 61547 EN 61000-3-2

EN 62384

Ordering information

Product name	Туре	EAN10	EAN40	NAED	Pieces / box
OT FIT 15/220-240/350 CS	AA61853	4052899919426	4052899919495	n/a	20
OT Cable Clamp B-style	AA62261		4052899077898		

Disclaimer (Engineering Samples: B-Samples and C-Samples)

This product is a demonstration model from our development laboratories made available for your information only.

The model is not binding in respect to its fitness for use, i.e. service life, luminous flux, color temperature and performance.

Prior to production the design, including dimensions, is subject to modification.

You will, therefore, appreciate that at this stage of development we are unable to assume any liability also for damages which may be caused by this product. Should you urgently require binding information for the preparation of construction data for your applications, please contact our marketing department.

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