CC COMPACT SIMPLE FIX DIMMABLE





EASYLINE SIMPLE FIX C-PC MINI

186905, 186906, 186907, 186908, 186909, 186910

Typical Applications

Built-in in compact luminaires for

- Retail lighting
- Residential lighting



EasyLine Simple Fix C-PC min

- DIMMABLE: PHASE-CUT TRAILING-EDGE
- DIMMING METHOD: ANALOGUE
- SELV
- LONG SERVICE LIFE: UP TO 50,000 HRS.
- PRODUCT GUARANTEE: 5 YEARS



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EasyLine Simple Fix C-PC mini

Product features

Compact casing shape

Electrical features

- Mains voltage: 220-240 V ±10%
- Mains frequency: 50-60 Hz
- Push-in terminals: 0.5-1.5 mm²
- Power factor at full load: 0.99
- Open circuit voltage (U_{max.}): 60 V
- · Secondary side switching of LED modules is not allowed.



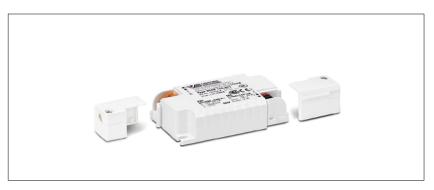
- Dimmable with phase-cutting trailing-edge dimmer
- The compatibility of the driver and the dimmer has to be confirmed prior to installation to avoide flickering and/or noises.
- Dimming range: 5-100%
- If no dimming interface is connected, brightness will stay at 100%.

Safety features

- Protection against transient main peaks up to 1 kV (between L and N)
- Electronic short-circuit protection
- Overload protection
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class II
- SELV

Packaging units

Ref. No.	Packaging unit					
	Pieces Boxes		Weight			
	per box	per pallet	g			
186905	60	114	45			
186906	60	114	46			
186907	60	114	47			
186908	60	90	60			
186909	60	90	60			

















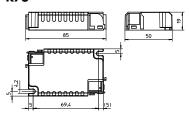




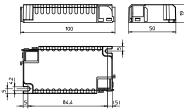
Dimensions

Ref. No.	Casing	Length	Width	Height	
		mm	mm	mm	
186905	K76	85	50	19	
186906	K76	85	50	19	
186907	K76	85	50	19	
186908	K77	100	50	19	
186909	K77	100	50	19	

K76







Cord grips K76/K77

Available for independent operation Contains two cord grips and screws





Applied standards

- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-2
- EN 62384
- EN 55015





Dimming

Analogue



Product guarantee

- - for operation at recommended operation temperature (see table for expected service life time on the next page)
- The conditions for the Product Guarantee of the Vossloh-Schwabe Group shall apply as published on our homepage (www.vossloh-schwabe.com).

We will be happy to send you these conditions upon request.



LED Drivers - EasyLine Simple Fix C-PC mini

Electrical characteristics

Max.	Туре	Ref. No.	Voltage	Mains	Inrush	Current	Voltage	THD	Efficiency	Ripple
output			50-60 Hz	current	current	output DC	output	at full load	at full load	100 Hz
W			V	mA	A / µs	mA (± 8%)	DC (V)	% (230 V)	% (230 V)	%
4	ECXd 100.370	186905	220-240	23	0.41 / 50	100	29-40	13	78.5	21
6	ECXd 150.371	186906	220-240	33	0.72 / 49	150	29-40	12	80	24
8	ECXd 200.372	186907	220-240	44	0.77 / 56	200	29-40	12	81	26
10	ECXd 250.373	186908	220-240	52	1.15 / 38	250	29-40	11	84.5	19
14	ECXd 350.374	186909	220-240	72	1.83 / 23	350	29-40	10	85.5	21

Maximum ratings

Exceeding the maximum ratings can lead to reduction of service life or destruction of the drivers.

Ref. No.	Ambient tem	Ambient temperature Operation		midity Storage		Storage humidity		Max. operation	Degree of	
	range		range		temperature ro	ange	range		temperature at t _c point	protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
All	-20	+50	5	60	-40	+85	5	95	+80	IP20

Expected service life time

at operation temperatures at t_{C} point

Operation	Ref. No.	
current	All	
All	70 °C*	80 °C
hrs.	50,000	30,000

^{*} recommended operation temperature

Product labels





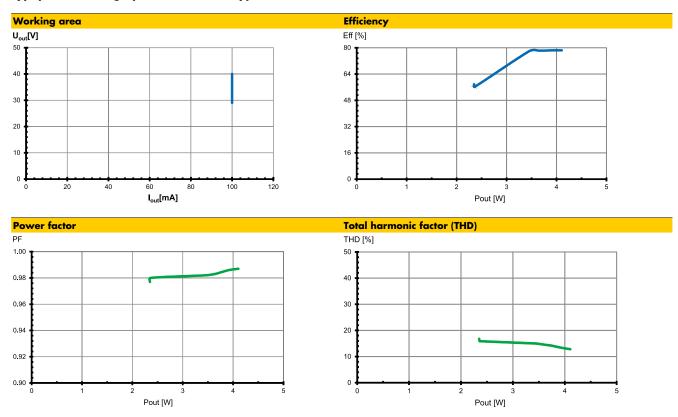




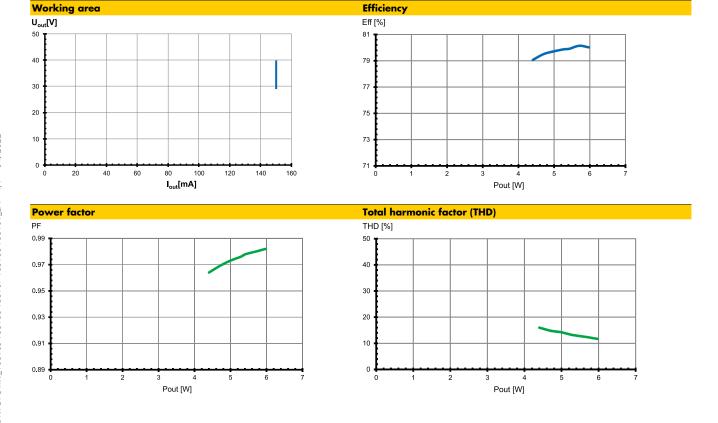




Typ. performance graphs for 186905 / Type ECXd 100.370

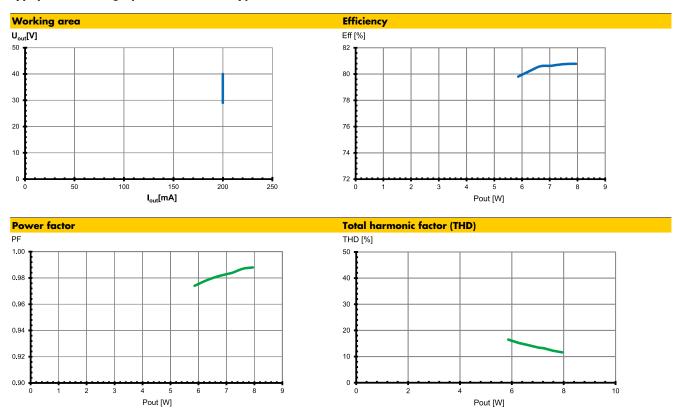


Typ. performance graphs for 186906 / Type ECXd 150.371

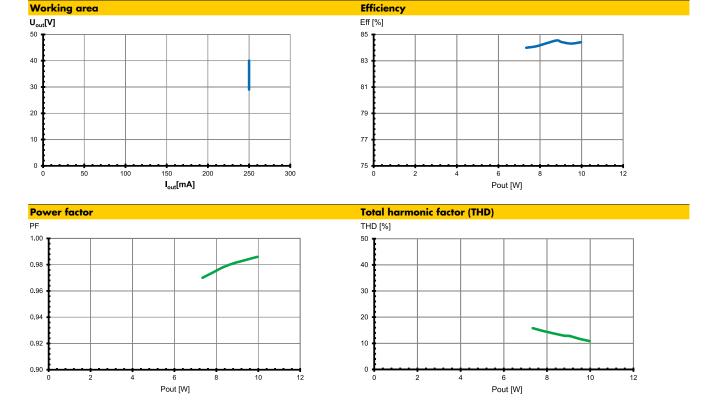




Typ. performance graphs for 186907 / Type ECXd 200.372

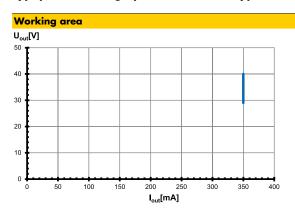


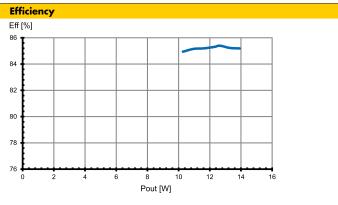
Typ. performance graphs for 186908 / Type ECXd 250.373

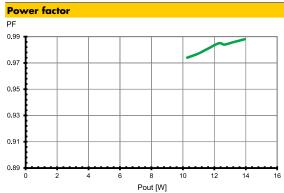


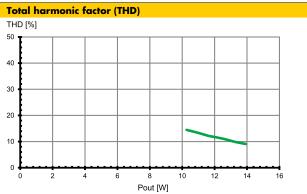


Typ. performance graphs for 186909 / Type ECXd 350.374









Safety functions

Transient mains peaks protection:

Values are in compliance with EN 61547 (interference immunity).

Surges between L-N: up to 1 kV

- Short-circuit protection: Control gears are protected against short-term short-circuit
- Overload protection: Control gears only work in range of rated output power and voltage problemfree.
 Please check before switch-on mains power supply that the selected LED load is suitable (see Electrical Characteristics on data sheet).
- No load operation: Control gears are protected against no load operation (open load).
- If any of the above mentioned safety functions will be triggered, disconnect the control gear from the power supply then find and eliminate the cause of the problem.

List of compatible dimmers

Manufacturer	Dimmer type
Elko	315 GLE
Elko	315 GLE 2-pol
Elko	316 GLED
Elko	630 GLE
Legrand	ASW 3000H
Micromatic	UNI LED + 325
Moeller Eaton	CDAE - 01/04
SG	LEDDIM 400

Minimum dimmer load has to be observed.

Minimum dimming load incl. tolerances for LED drivers

- 186905: min. 3.2 W
- 186906: min. 4.4 W
- 186907: min. 5.8 W
- 186908: min. 6.9 W
- 186909: min. 10.8 W

The compatibility of the dimmers of other manufacturers has to be tested prior to installation.



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Assembly and Safety Information

Installation must be carried out under observation of the relevant regulations and standards. Installation must be carried out in a voltage-free state (i.e. disconnection from the mains). The following advices must be observed; non-observance can result in the destruction of the LED drivers, fire and/or other hazards.

Mandatory regulations

- DIN VDE 0100
- EN 60598-1

Mechanical mounting

• Mounting position: Built-in: Any position inside a luminaire

is allowed

Independent application: Drivers are allowed to use for independent applications with separate cord grip (Ref. No.: 186910).

Mounting location: LED drivers are designed for integration into

luminaires or comparable devices.

Independent LED drivers do not need to be

integrated into a casing.

Installation in outdoor luminaires: degree of protection for luminaire with water protection

rate \geq 4 (e.g. IP54 required).

• Degree of protection: IP20

• Clearance: Min. 0.10 m from walls. ceilings and

insulation

• Surface: Solid and plane surface for optimum

heat dissipation required.

 Heat transfer: If the driver is destined for installation in a luminaire, sufficient heat transfer must be

ensured between the driver and the luminaire

casing.

LED drivers should be mounted with the greatest possible clearance to heat sources. During operation, the temperature measure at

the driver's t_{c} point must not exceed the

specified maximum value.

• Fastening: Using M4 screws in the designated holes

• Tightening torque: 0.2 Nm

Electrical installation

Connection

terminals: Push-in terminals for rigid or flexible conductors

with a section: $0.5-1.5 \text{ mm}^2$

• Stripped length: 8.5-10 mm

• Wiring: The mains conductor within the luminaire must

be kept short (to reduce the induction of

interference).

Mains and lamp conductors must be kept separate and if possible should not be laid

in parallel to one another.

Max. secondary side lead length: 3 m

Polarity: Please ensure the correct polarity of the leads

prior to commissioning. Reversed polarity can

destroy the modules.

• Through-wiring: Is not allowed.

• Secondary load: The sum of forward voltages of LED loads is

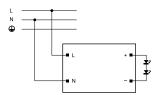
within the tolerances which are mentioned in the Electrical Characteristics on the data

shee

• Parallel wiring: Parallel connection of LED loads is not

allowed.

• Wiring diagram:



Selection of automatic cut-outs for VS LED drivers

• Dimensioning automatic cut-outs

High transient currents occur when an LED driver is switched on because the capacitors have to load. Ignition of LED modules occurs almost simultaneously. This also causes a simultaneous high demand for power. These high currents when the system is switched on put a strain on the automatic conductor cut-outs. which must be selected and dimensioned to suit.

• Release reaction

The release reaction of the automatic conductor cut-outs comply with VDE 0641. part 11. for B. C characteristics. The values shown in the following tables are for guidance purposes only and are subject to system-dependent change.

• No. of LED drivers

The maximum number of VS LED drivers applies to cases where the devices are switched on simultaneously. Specifications apply to single-pole fuses. The number of permissible drivers must be reduced by 20% for multi-pole fuses. The considered circuit impedance equals 400 m Ω (approx. 20 m [2.5 mm 2] of conductor from the power supply to the distributor and a further 15 m to the luminaire).

Туре	Ref. No.	Automatic cut-out type and possible no.							
		of VS dr	of VS drivers						
		pcs.							
Automatic cut-	out type	B 10 A	B 13 A	B 16 A	C 10 A	C 13 A	C 16 A		
ECXd 100.370	186905	384	500	615	384	500	615		
ECXd 150.371	186906	263	342	421	263	342	421		
ECXd 200.372	186907	263	342	421	263	342	421		
ECXd 250.373	186908	166	216	266	166	216	266		
ECXd 350.374	186909	120	156	192	120	156	192		

 To limit capacitive inrush currents the current carrying capacity of each circuit breaker (fuse) can be increased by a factor of 2.5 with the help of our ESB (Ref. No.: 149820, 149821, 149822) inrush current limiters.

