CC COMPACT DIMMABLE





COMFORTLINE SIMPLE FIX C-R5 100 V DALI2

187221, 187222

Typical Applications

Built-in in compact luminaires

- Office lighting
- Residential lighting



PUSH

ComfortLine Simple Fix C-R5 100 V DALI2

- DIMMABLE: DALI (ED. 2)
- WIDE INPUT VOLTAGE RANGE: 100-240 V
- WITH INTEGRATED CORD GRIP FOR INDEPENDENT OPERATION
- SELV
- SUITABLE FOR BUILT-IN INTO FURNITURE
- PRODUCT GUARANTEE: 5 YEARS



Product features

- · Compact casing shape
- For independent operation with cord grip

Functions

• Fixed output current

Electrical features

- Mains voltage: 100-240 V ±10%
- Mains frequency: 50-60 Hz
- Push-in terminals: 0.5-1.5 mm²
- Power factor at full load: > 0.9
- Standby losses: < 0.5 W
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.

Dimming

- Dimming range: 1 to 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
- Overtemperature protection
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class II
- SELV
- SVM: < 0.4
- PstLM: < 1

Packaging units

Ref. No.	Packaging unit						
	Pieces	Weight					
	per box	per pallet	9				
187222	20	140	108				
187221	20	140	186				





50 000

😰 hours





PUSH





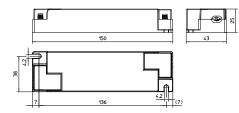






Dimensions

- Casing: K93
- Length: 150 mm
- Width: 43 mm
- Height: 25 mm



Applied standards

- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-3
- EN 62384
- EN 55015
- IEC 62386 ed. 2 part 102/103/207
- VDE 0710-T14





Product guarantee

Cord grip for K93

For independent operation

not mounted but enclosed

- 5 years
- 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.

Dimming

Analogue



The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

CC-ComfortLine-Simple-Fix-C-R5-100V-DALI2_187221-187222_EN = 2/8 = 02/2024

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	100 Hz
W			V	mA	A / μs	mA (±5%)	DC (V)	%	% (230 V)	%
9	ECXd 700.564	187222	100-240	120-53	11 / 190	700	5-13	20	> 80	< 5
16	ECXd 350.563	187221	100-240	92-86	13 / 184	350	23-46	18	> 84	< 5

Maximum ratings

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

Ref. No.	Ambient tempe	Ambient temperature		Operation humidity		Storage temperature		ty	Max. operation	Degree of
	range		range		range		range		temperature at t _c point	protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
187221	-15	+45	20	60	-40	+85	5	95	+85	IP20
187222	-15	+45	20	60	-40	+85	5	95	+70	IP20

Expected service life time

at operation temperatures at t_c point

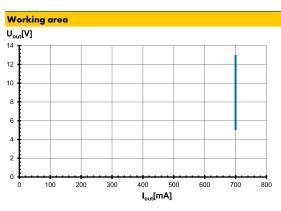
Operation	Ref. No.						
current	187221		187222				
Max.	75 °C	85 °C	60 °C	70 °C			
hrs.	50,000	30,000	50,000	30,000			

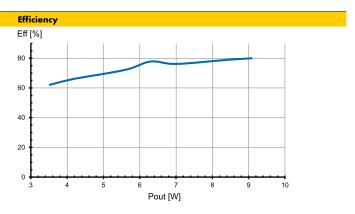
Product labels

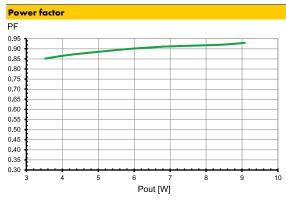


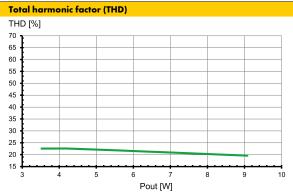




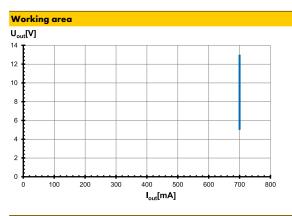


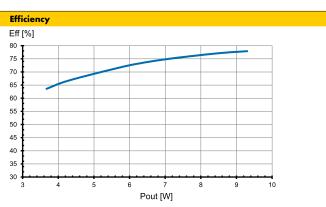


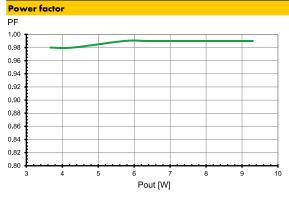


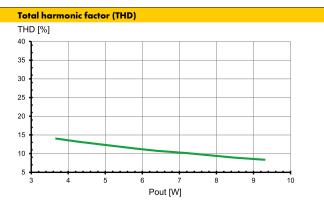


Typ. performance graphs for 187222 / Type ECXd 700.564 at 100 V



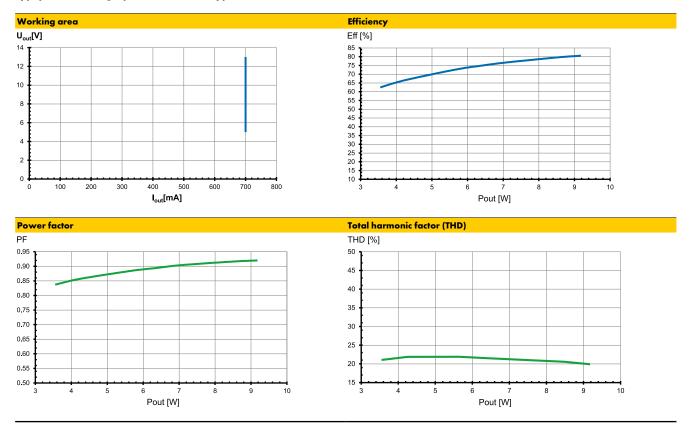




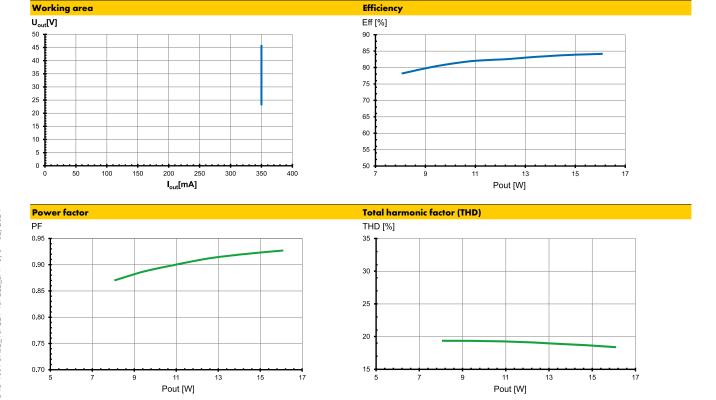




Typ. performance graphs for 187222 / Type ECXd 700.564 at 240 V



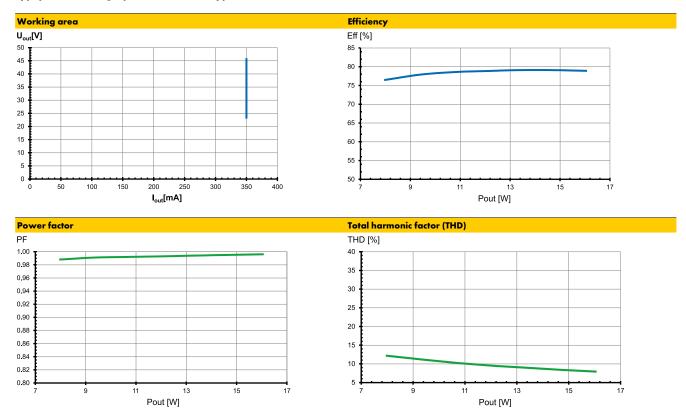
Typ. performance graphs for 187221 / Type ECXd 350.563 at 230 V



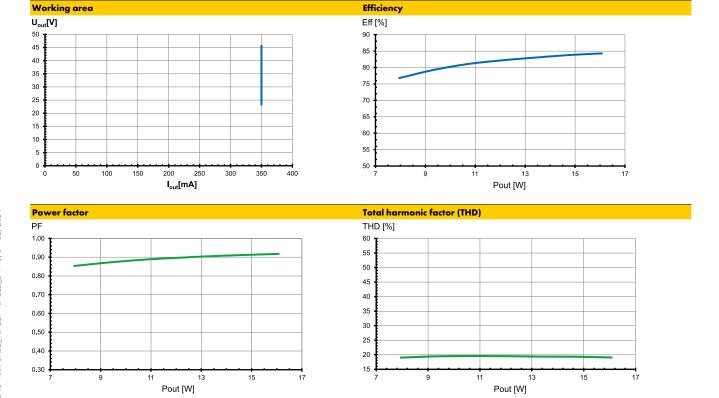
Efficiency



Typ. performance graphs for 187221 / Type ECXd 350.563 at 100 V



Typ. performance graphs for 187221 / Type ECXd 350.563 at 240 V



Efficiency



Safety functions

• Transient mains peaks protection:

Values are in compliance with EN 61547 (interference immunity). Surges between L-N: up to 1 kV

Surges between L/N-PE: up to 2 kV

• Short-circuit protection:

The control gear is protected against permanent short-circuit with automatic restart

• Overload protection: The control gears have overload protection due to limitation of DC output voltage < 60 V. Please check before switch-on mains power supply that the selected LED load is suitable (see Electrical Characteristics on data sheet).

• Overheating: The control gears have overheating protection.

In case of overheating the control gear will shut down. For restart switch of the mains for

1 min. and start again.

The temperature reduces the output current of the control gear in the event of overheating.

• No load operation: The control gear is 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.

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CC-Comfortline-Simple-Fix-C-R5-100V-DALI2_187221-187222_EN - 7/8 - 02/2024

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: Independent application: Drivers with

integrated cord grip are allowed to use for

independent applications.

• Mounting location: 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 ≥ 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 of 0.5–1.5 mm²

• Stripped length: 8-9 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 for

independent drivers: 1 m

Polarity: Please ensure the correct polarity of the leads

prior to commissioning. Reversed polarity can destroy the modules.

• Parallel connection: At secondary side is not allowed.

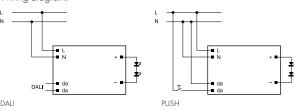
• Through-wiring: Is not allowed

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

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

sheet.

• Wiring diagram:



Note: Max. quantity of drivers at one push button: 5

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 mm²] 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 drivers pcs.								
Automatic cut-ou	B 10 A	B 13 A	B 16 A	C 10 A	C 13 A	C 16 A				
ECXd 700.564	187222	39	51	62	65	85	104			
ECXd 350.563	187221	34	44	55	57	74	91			

 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.

