CC COMPACT DIMMABLE





COMFORTLINE DIP SWITCH C-R5 100 V DALI2

187220

Typical Applications

Built-in in compact luminaires

- Office lighting
- Residential lighting



ComfortLine DIP Switch C-R5 100 V DALI2

- SELECTABLE OUTPUT CURRENT VIA DIP SWITCH
- DIMMABLE: DALI (ED. 2) AND PUSH BUTTON
- 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



ComfortLine DIP Switch C-R5 100 V DALI2

Product features

- Compact casing shape
- For independent operation with cord grip

Functions

- Selectable current output by DIP switches
- The output current can be adjusted between 350 and 700 mA.

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

Packaging units

Ref. No.	Packaging unit						
	Pieces	Weight					
	per box per pallet		g				
187220	20	112	256				





50 000

😰 hours















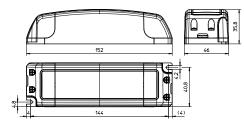
Dimensions

- Casing: K94
- Length: 152 mm
- Width: 46 mm
- Height: 35.8 mm

Product guarantee

upon request.

• 5 years



• The conditions for the Product Guarantee

published on our homepage

(www.vossloh-schwabe.com).

of the Vossloh-Schwabe Group shall apply as

We will be happy to send you these conditions

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







Dimming

Analogue







CC-Comfort ine-DIP-switch-C-R5-100V-DALI2_187220_EN - 2/6 - 09/2022

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)	%
30	ECXd 700.562	187220	100-240	356-149	21 / 234	350-700	10-43	15	> 87	< 5

Maximum ratings

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

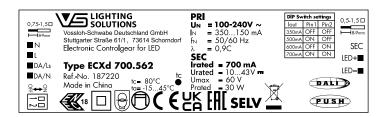
Ref.	No.	Ambient temp	erature	Operation humidity		Storage temperature		Storage humidity		Max. operation	Degree of
		range		range		range		range		temperature at t _c point	protection
		°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
187	220	-15	+45	20	60	-40	+85	5	95	+80	IP20

Expected service life time

at operation temperatures at t_{c} point

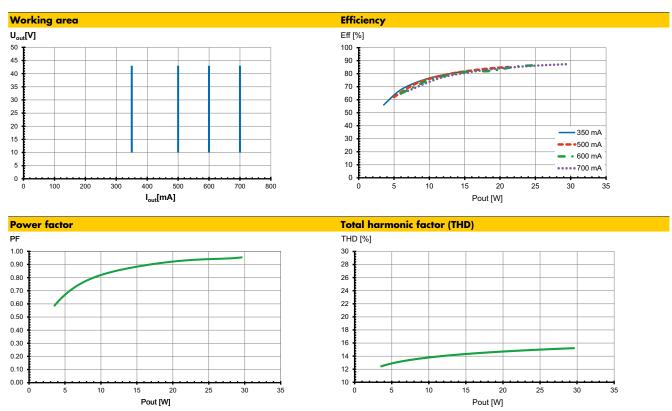
Operation	Ref. No.	
current	187220	
Мах.	70 °C	80 °C
hrs.	50,000	30,000

Product labels

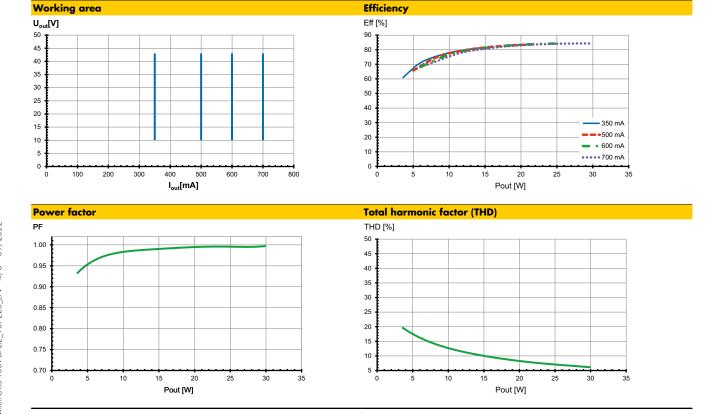


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187	187220 / ECXd 700.562									
Pin		Output	Current	Factory						
1	2	W	mA	settings (mA)						
OFF	OFF	15	350	350						
ON	OFF	21	500							
OFF	ON	26	600							
ON	ON	30	700							

Typ. performance graphs for 187220 / Type ECXd 700.562 at 230 V



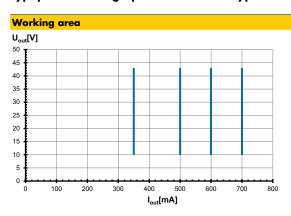
Typ. performance graphs for 187220 / Type ECXd 700.562 at 100 V

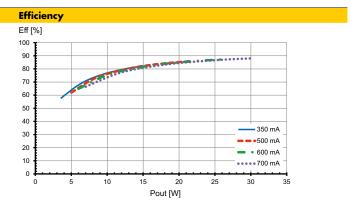


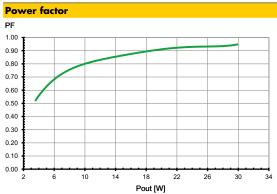
The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

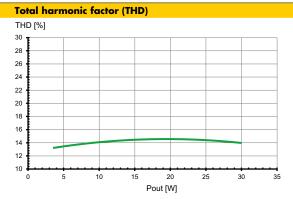


Typ. performance graphs for 187220 / Type ECXd 700.562 at 240 V









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 function.

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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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.

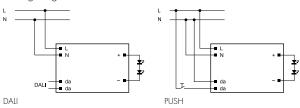
• Parallel connection: At secondary side is not allowed.

• Through-wiring: Is not allowed

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

sheet.

• 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 drivers pcs.						
Automatic cut	B 10 A	B 13 A	B 16 A	C 10 A	C 13 A	C 16 A		
ECXd 700.562	187220	16	21	26	27	35	44	

 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.

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