CC COMPACT DIP SWITCH MINI SLIM DALI2 100 V





COMFORTLINE DIP SWITCH MINI SLIM DALI2 100 V

187672

Typical Applications

Independent for compact luminaires for

- Recessed lighting
- Downlights

ComfortLine DIP switch Mini Slim DALI2 100 \

- SELECTABLE OUTPUT CURRENT VIA DIP SWITCH
- DIMMABLE: DALI (ED.2)
- WIDE INPUT VOLTAGE RANGE: 100-240 V
- WITH INTEGRATED CORD GRIP FOR INDEPENDENT OPERATION
- VERY LOW RIPPLE CURRENT: <3%
- SELV
- LONG SERVICE LIFE: UP TO 100.000 HRS.
- PRODUCT GUARANTEE: 5 YEARS



ComfortLine Dip switch Mini Slim DALI2 100 V

Product features

· Mini Slim casing shape

Electrical features

- Mains voltage: 100-240 V
- Mains frequency: 50-60 Hz
- Push-in terminals primary: 0.75-1.5 mm² secondary: 0.5-1.5 mm²
- Power factor at full load: 0.95
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.

Dimming

- Dimming range: 1 to 100%
- Dimming method: analogue

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
- SFIV
- SVM: < 0.4
- PstLM: < 1

Packaging units

Ref. No.	Packaging unit					
	Pieces	Boxes	Weight			
	per box	per pallet	g			
187672	50	114	70			

Product guarantee

• 5 years

CC-ComfortLine-DIP-switch-Mini-Slim-DALI2-100V_187672_EN - 2/6 - 10/2025

- 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.









DALIZ











- Casing shape: K121
- Length: 155 mm
- Width: 27.4 mm
- Height: 21 mm

Allowed cable jacket diameter

for the cord-grips:

Input: 6 – 7 mm DALI: 6 - 7 mm Output: 6 - 7 mm





Applied standards

- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-2
- EN 62384
- EN 55015
- IEC 62386 ed.2 part 101/102/207













Electrical characteristics

Мах.	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 (± 10%)	DC (V)	% (230 V)	% (230 V)	%
14	ECXd 700.786	187672	100-240	140-75	6.5 / 44	150/350/500/700	2-20	7	86	< 3

Maximum ratings

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

Ref. No.	Ambient temperature		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	
187672	-20	+45	10	90	-40	+85	10	90	+70	IP20

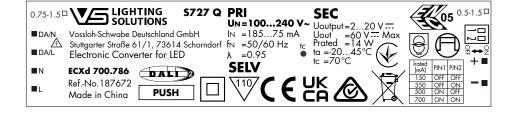
Expected service life time

at operation temperatures at t_c point

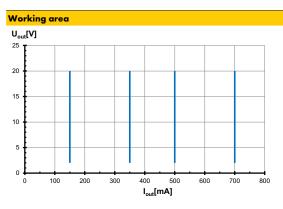
Operation	Ref.No.	
current	187672	
All	60 °C*	70 °C
hrs.	100.000	50.000

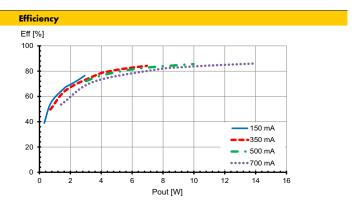
^{*} recommended operation temperature

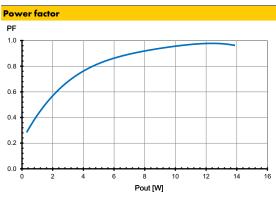
Product label

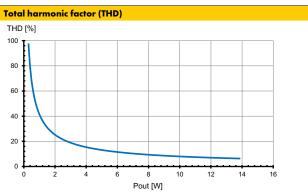


Typ. performance graphs for 187672 / Type ECXd 700.786 at 230 V

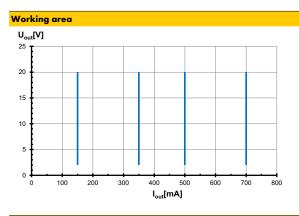


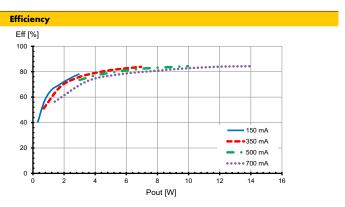


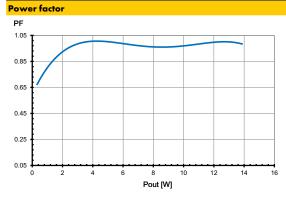


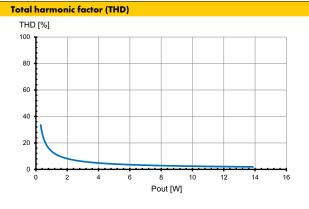


Typ. performance graphs for 187672 / Type ECXd 700.786 at $100 \, \text{V}$









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

• Transient mains peaks protection:

Values are in compliance with EN 61547

(interference immunity).

- Surges between L–N: up to 1 kV
- Short-circuit protection: The control gears are protected against

permanent short-circuit with automatic restart

function.

• Overload protection: The 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: 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.

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 an

additional cord grip.

• 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

asing.

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 Nn

Electrical installation

Connection

terminals: Screw terminals for rigid or flexible conductors

with a section of primary $0.75-1.5 \text{ mm}^2$ and

secondary 0.5-1.5 mm²

• 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: 5 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

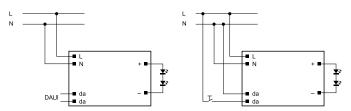
within the tolerances which are mentioned in the Electrical Characteristics on the data

sheet.

Parallel wiring: Parallel connection of LED loads is not

allowed.

• Wiring diagram:



Note: Max. quantity of drivers at one push button: 30

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-out type		B 10 A	B 13 A	B 16 A	C 10 A	C 13 A	C 16 A			
	ECXd 700.786	187672	117	152	188	11 <i>7</i>	152	188		

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

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