CV 24 V





EASYLINE 24 V C-L 120 V

187036, 187037, 187038, 187039

Typical Applications

Built-in in luminaires for 24 V systems

- Retail lighting
- Residential lighting
- Furniture lighting

EasyLine 24 V C-L 12 V

- VERY LOW RIPPLE: < 3%
- WIDE INPUT VOLTAGE RANGE: 120–277 V
- WITH INTEGRATED CORD GRIP FOR INDEPENDENT OPERATION
- SELV
- SUITABLE FOR BUILT-IN INTO FURNITURE
- LONG SERVICE LIFE: UP TO 100,000 HRS.
- PRODUCT GUARANTEE: 5 YEARS



EasyLine 24 V C-L 120 V

Product features

- Compact casing shape
- For use in applications with medium and high capacity range of up to 20, 40, 60 and 100 W

Electrical features

- Mains voltage: 120–277 V ±10%
- Mains frequency: 50–60 Hz
- Screw terminals: primary 0.75–2.5 mm², secondary 0.5–2.5 mm²
- Power factor at full load: > 0.98 C

Safety features

- Protection against transient main peaks
- Electronic short-circuit protection
- Overload protection: reversible
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class II
- SFIV

Packaging units

Ref. No.	Packaging unit							
	Pieces	Weight						
	per box	per pallet	9					
187036	20	100	112					
187037	20	90	288					
187038	20	84	364					
187039	12	114	503					

Product guarantee

- 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.





50 000 (🖫) hours









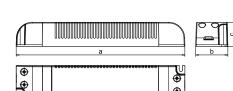








Ref. No.	Casing	Length a	Width b	Height c
		mm	mm	mm
187036	K53	153	41	32
187037	K81	210	40	30
187038	K82	250	40	30
187039	K83	310	40	36





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







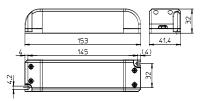




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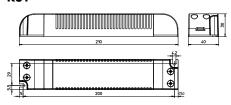
Product drawings and photos

K53



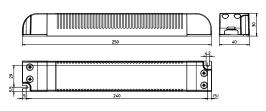


K81



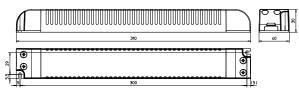


K82





K83





Electrical characteristics

Max.	Туре	Ref. No.	Voltage	Mains	Inrush	Current	Voltage	THD	Efficiency	Ripple
output			50-60 Hz	current	current	output DC	output DC	at full load	at full load	100 Hz
W			V	mA	A / µs	mA (± 5%)	V (± 5%)	% (230 V)	% (230 V)	%
20	EDXe 120/24.075	187036	120-277	224-80	12 / 190	0-833	24	< 6	> 87	≤ 3
40	EDXe 140/24.076	187037	120-277	435-160	11 / 298	0-1670	24	< 8	> 87	≤ 3
60	EDXe 160/24.077	187038	120-277	635-230	13 / 285	0-2500	24	< 7	> 88	≤ 3
100	EDXe 1100/24.078	187039	120-277	930-365	24 / 698	0-4000	24	< 6	> 88	≤ 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	
187036	-20	+45	5	60	-40	+85	5	95	+75	IP20
187037, 187038, 187039									+85	

Expected service life time

at operation temperatures at t_C point

Operation	Ref. No.								
current	18 <i>7</i> 036		187037, 187038, 187039						
All	65 °C	75 °C	75 °C	85 °C					
hrs.	100,000	50,000	100,000	50,000					

Product labels



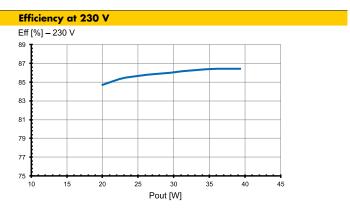


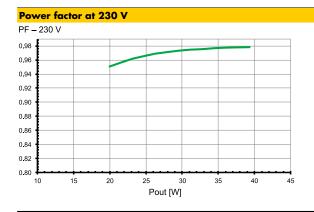




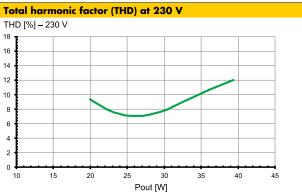


Working area Uout[V] 25 20 15 10 0 200 400 600 800 1000 1200 1400 1600 1800

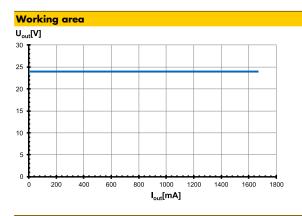


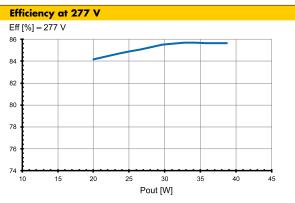


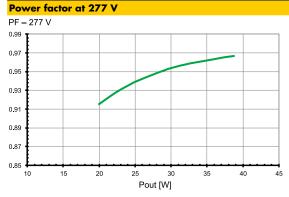
 $I_{out}[mA]$

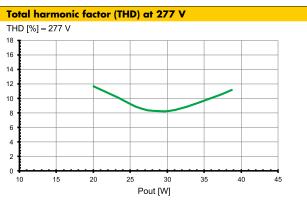


Typ. performance graphs for 187037 / Type EDXe 140/24.076











LED Drivers - EasyLine 24 V C-L 120 V

Safety features

• 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 gear is protected against permanent short-circuit with automatic restart function.

- Overload protection: The control gear only works in range of rated output power and voltage problemfree.
 Please check that the selected LED load is suitable (see Electrical Characteristics on this 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.

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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: Drivers are suitable for independent

operation.

• 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 $t_{\rm c}$ 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: Screw terminals for rigid or flexible

conductors with a section of $0.75-1.5~\text{mm}^2$ on primary side and $0.5-2.5~\text{mm}^2$ on

secondary side

• 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.

Polarity: Please ensure the correct polarity of the leads

prior to commissioning. Reversed polarity can

destroy the modules.

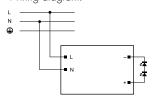
• Through-wiring: Is not allowed

• 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.

• 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 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	B 10 A	B 13 A	B 16 A	C 10 A	C 13 A	C 16 A			
EDXe 120/24.075	187036	36	46	37	44	58	71		
EDXe 140/24.076	187037	22	29	36	22	29	36		
EDXe 160/24.077	187038	15	20	25	15	20	25		
EDXe 1100/24.078	187039	4	5	6	6	8	10		

