CC COMPACT TERMINAL





EASYLINE TERMINAL C-1R30

186531, 186532

Typical Applications

- Built-in in reflector luminaires
- Shop illumination
- Downlights

EasyLine Terminal C-IR30

- SELECTABLE OUTPUT CURRENT VIA CONNECTION TERMINAL
- WITH INTEGRATED CORD GRIP FOR INDEPENDENT OPERATION
- SELV
- LONG SERVICE LIFE: UP TO 50,000 HRS.
- PRODUCT GUARANTEE: 5 YEARS



EasyLine Terminal C-IR30

Product features

- Compact casing shape
- With integrated cord grip
- Optional for built-in or independent operation

Functions

- Selectable current output by secondary side terminal.
- The required current output can be chosen by selecting the respective pin at the output terminal.

Electrical features

• Mains voltage: 220-240 V ±10% • Mains frequency: 50-60 Hz • Push-in terminals: 0.2-1.5 mm² • Power factor at full load: 0.93

• Open circuit voltage (U_{max.}): 60 V

• Secondary side switching of LED modules is not allowed.

Safety features

- Protection against transient main peaks up to 1 kV (between L and N)
- Temporary 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 Boxes Weight					
	per box	per pallet	g			
186531	15	80	135			
186532	15	80	156			





30 000

(🗷) hours











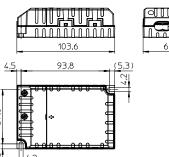




Dimensions

• Casing: K2.1 • Length: 103.6 mm • Width: 67.4 mm

• Height: 31 mm







Applied standards

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







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.

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	< 1000 Hz
W			V	mA	A / µs	mA (± 7.5%)	DC (V)	%	% (230 V)	%
28.5	ECXe 700.199	186531	220-240	145-130	4.5 / 60	500	25-57	13	> 88	< 20
34.2				180-160		600			> 89	
40				205-190		700]		> 89	
34.4	ECXe 1050.200	186532	220-240	185-160	6 / 55	800	25-43	11.9	> 89	5
39.8				210-185		925			> 89	
45				245-210		1050			> 89	

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	
186531	-20	+50	5	95	-40	+50	5	95	+80	IP20
186532									+85	

Expected service life time

at operation temperatures at tc point

Operation	Ref. No.				
current	186531		186532		
All	70 °C*	80 °C	75 °C*	85 °C	
hrs.	50,000	30,000	50,000	30,000	

 $^{^{\}star}$ recommended operation temperature

Product labels



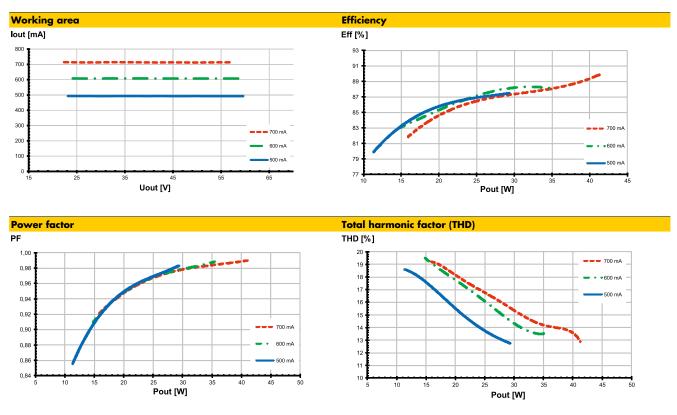


The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

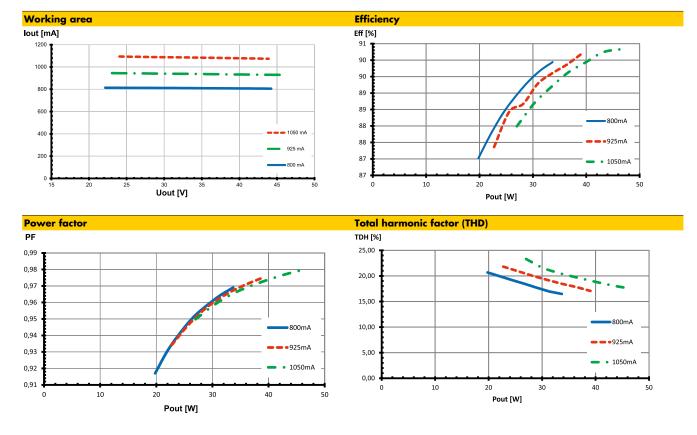


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Typ. performance graphs for 186531 / Typ ECXe 700.199



Typ. performance graphs for 186532 / Type ECXe 1050.200





LED Drivers - EasyLine Terminal C-IR30

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:

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.

• 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 not allowed to use for independent applications

• 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 ≥ 4 (e.g. IP54 required).

• Degree of

IP20 protection:

Clearance: Min. 0.10 m from walls, ceilings and

insulation

• Surface: Solid and plane surface for optimum

heat dissipation required.

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

ensured between the driver and the luminaire

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

Push-in terminals for rigid or flexible conductors terminals:

with a section of $0.2-1.5 \text{ mm}^2$

• 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 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.

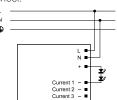
 Through-wiring: Is not allowed.

• 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:



Selectable current - Terminal 1

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-out	type B	B 10 A	B 16 A	B 20 A		
ECXe 700.199	186531	43	69	86		
ECXe 1050.200	186532	38	50	61		
Automatic cut-out	C 10 A	C 16 A	C 20 A			
ECXe 700.199	186531	43	69	86		
ECXe 1050.200	186532	38	50	61		

- 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.

