

Wall-mounted EV chargers Ex9EVD3



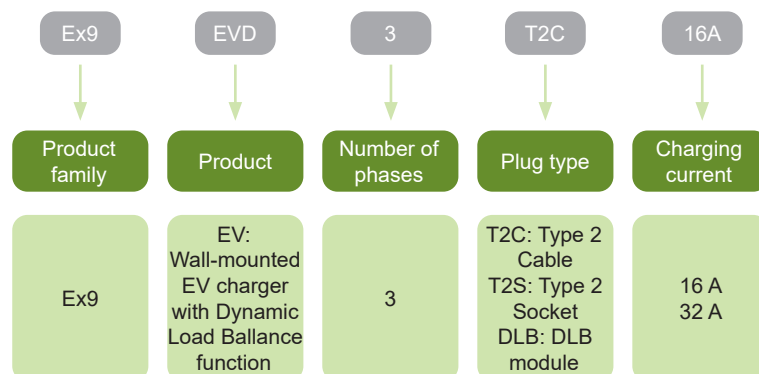
- Tested according to IEC/EN 61851-1
- Installation directly on wall
- 3phase versions
- Adjustable charging current up to 32 A
- Dynamic Load Balance function (DLB) via external modul orderable separately
- Plug type 2 (7 pins)
- Including RCCB B type
- Degree of protection IP 66

Ex9EVD3 is a wall-mounted charger for electric vehicles (EVs) with intentions to be used in a household. Our solution is equipped with B type Residual Current Circuit Breaker, which is a necessary protection of EV chargers. The battery of EV is working on DC principle and it can occur a DC current leakage. The internal B type RCCB is able to detect leakages in DC, AC and pulsating current in a high frequency.

We are offering a chargers with charging current up to 32 A in 3 phase connection. Cable with T2 connection is a part of delivery (valid for T2C 16A and T2C 32A version). For T2S 16A and T2S 32A cable is not include package. Output is able to use also as 1 phase.

The purpose of DLB module is to ensure that the maximum permitted current of the main circuit breaker is not exceeded by the simultaneous operation of the EV charging station and other appliances in the building. Communication with the wallbox is implemented via the RS 485 interface (2 wires). DLB module can be ordered separately.

Type Key



Certification marks



Wall-mounted EV chargers Ex9EVD3

EV chargers with cable

- 3phase version
- Charging current up to 16A or 32 A
- Integrated RCCB type B
- Integrated cable with type 2 plug 5 meter long



Maximal charging current	Number of phases	Version	Article No.	Type	Packing
16A	3	Cable	113891	Ex9EVD3 T2C 16A	1
32A	3	Cable	113892	Ex9EVD3 T2C 32A	1

EV chargers with socket

- 3phase version
- Charging current up to 16A or 32 A
- Integrated RCCB type B
- Integrated type 2 socket on front



Maximal charging current	Number of phases	Version	Article No.	Type	Packing
16A	3	Socket	113856	Ex9EVD3 T2S 16A	1
32A	3	Socket	113857	Ex9EVD3 T2S 32A	1

Dynamic Load Balance modules

- 3phase version
- 3 current transformers included
- Measured current 6 - 60 A
- Communication connection to EV charger via pins A, B (RS-485)



Maximal measured current	Number of phases	Connection with EV charger	Article No.	Type	Packing
6-60A	3	RS-485	113858	Ex9EVD3 DLB	1

Technical Data Ex9EVD3

EV chargers

General parameters

Static EV charging solution - installation directly on a wall
Adjustable charging current manually via button or automatically via DLB module
Integrated RCCB type B

Electrical parameters

	Ex9EVD3 T2S 16A	Ex9EVD3 T2S 32A	Ex9EVD3 T2C 16A	Ex9EVD3 T2C 32A
Tested according to	IEC/EN 61851-1; IEC/EN 62196-1			
Rated operating voltage U_e	400 V AC \pm 10%			
Rated frequency f	50 / 60 Hz			
Maximal charging current I_{max}	16 A	32 A	16 A	32 A
Adjusting steps of current	6 / 8 / 10 / 13 / 16 A	10 / 13 / 16 / 25 / 32 A	6 / 8 / 10 / 13 / 16 A	10 / 13 / 16 / 25 / 32 A
Charging power per step	4.1 / 5.5 / 6.9 / 9.0 / 11.0 kW	6.9 / 9.0 / 11.0 / 17.3 / 22.1 kW	4.1 / 5.5 / 6.9 / 9.0 / 11.0 kW	6.9 / 9.0 / 11.0 / 17.3 / 22.1 kW
Integrated RCCB	yes			
sensitivity to residual current	B type - residual AC, pulsating and smooth DC current, high frequency (1 kHz)			
rated residual current $I_{\Delta n}$ (AC / DC)	30 mA / 6 mA			
Connection	inlet cable from superior switchboard			
Charging mode	mode 3			
Compatible network	IT; TN-S			
Self consumption	< 10 W			

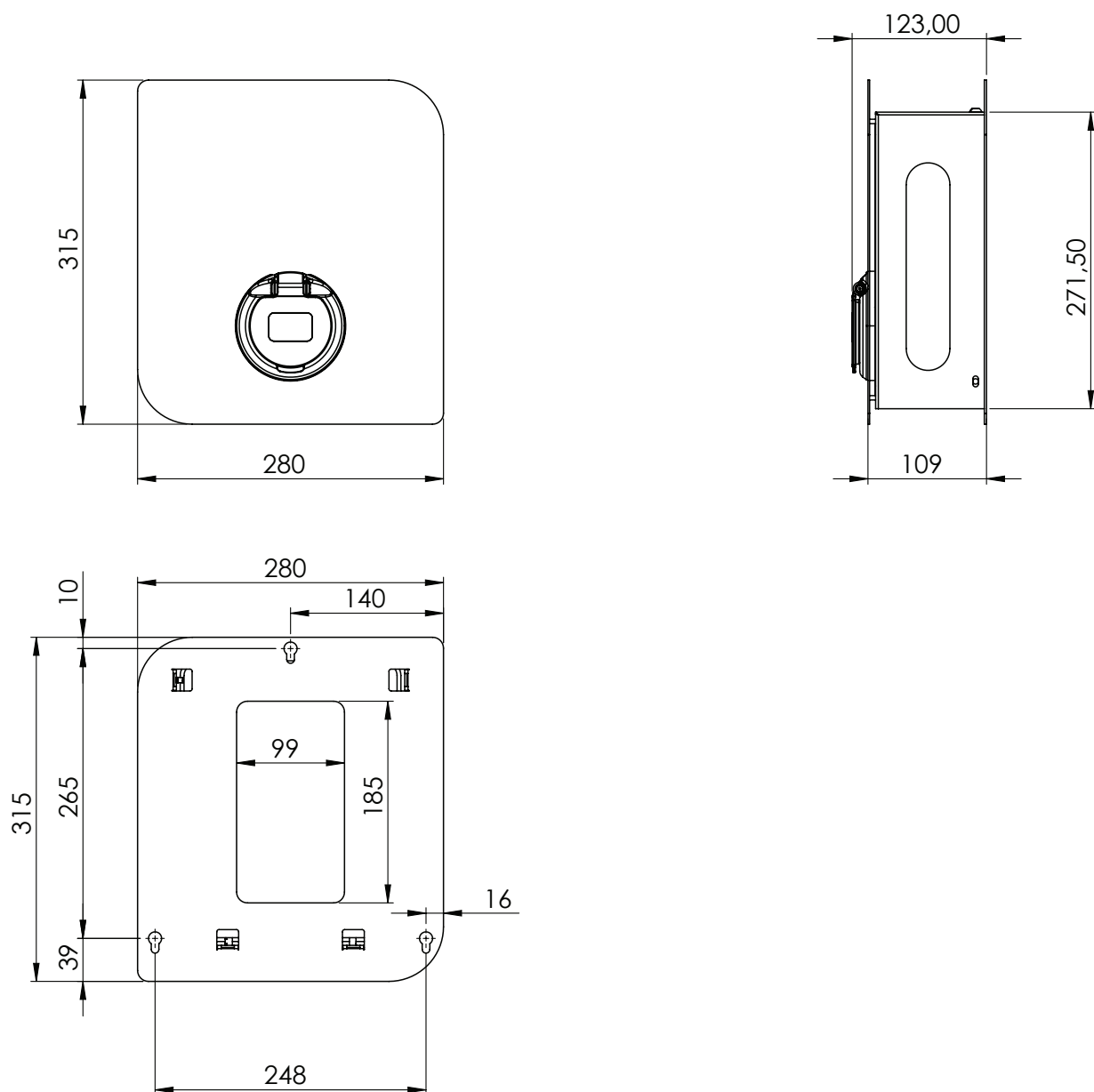
Mechanical parameters

	socket		5 m	
Recommended cross-section of inlet cable (16 / 32 A)	5x2,5 mm ²	5x6 mm ²	5x2,5 mm ²	5x6 mm ²
EV plugs	Type 2 / IEC 62196-2			
Degree of protection				
wallbox	IP66			
plugs (when connected)	IP44			
Ambient temperature	-25 °C — +40 °C			
Altitude	≤ 2000 m			
Relative humidity	≤ 75 %			
Insulation class	II			
Weight	4.75 kg		6 kg	

Technical Data Ex9EVD3

EV chargers

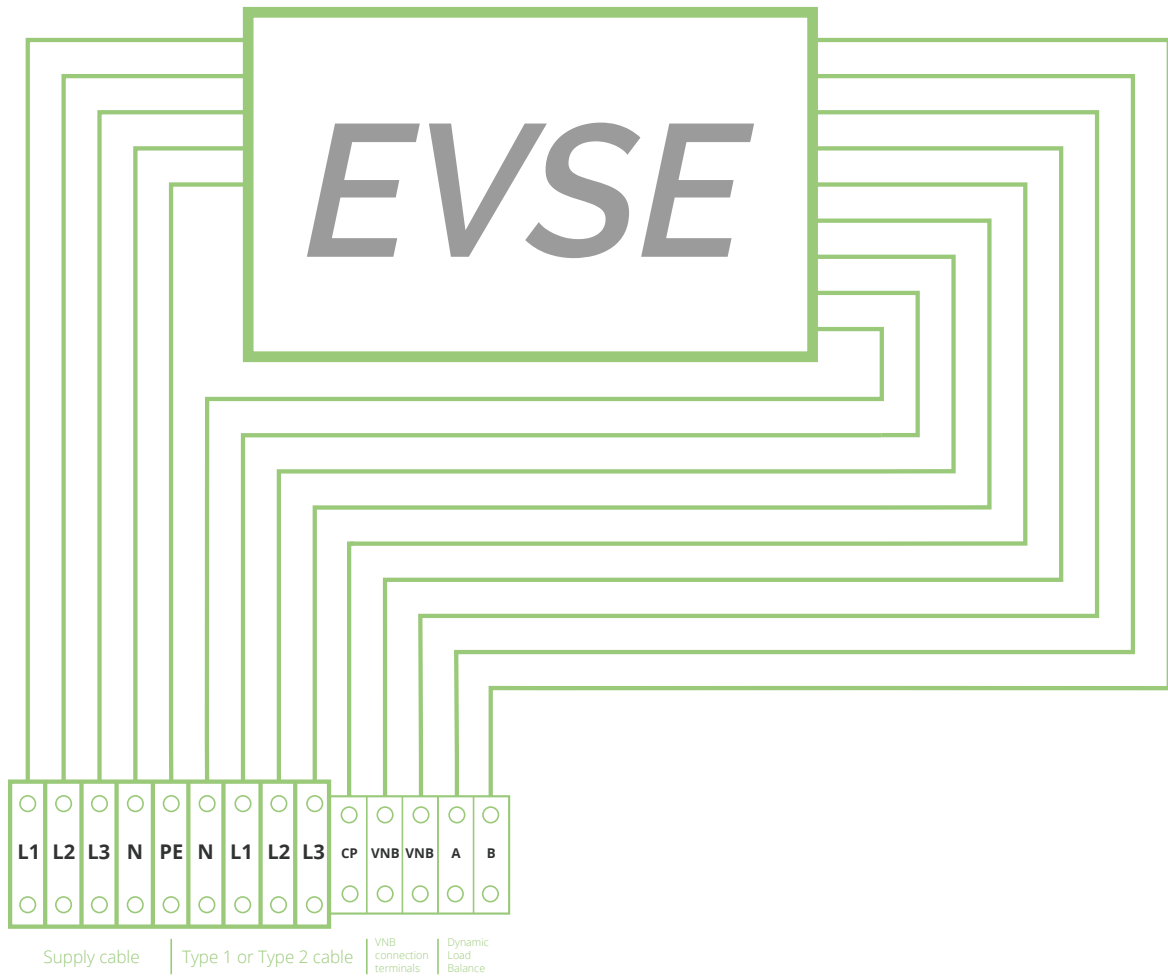
Dimensions



Technical Data Ex9EVD3

EV chargers

Wiring diagram



Technical Data Ex9EVD3 DLB

Dynamic Load Balance module

General parameters

DLB module must be installed directly after main circuit breaker as inlet into building/object
Dynamic Load Balance Module - Installation directly on DIN rail into inlet cabinet
Measured current from 6 to 60 A
Connection to EV charger via RS-485

Electrical parameters

	Ex9EVD3 DLB
Tested according to	IEC/EN 61851-1
Rated operating voltage U_e	400 V AC \pm 10%
Rated frequency f	50 / 60 Hz
Maximal measured current I_{max}	6 - 60 A
Connection to measured power line	3 separated current transformers
Connection to wallbox	RS-485 / 2 wires / pins A, B
Compatible measured network	IT; TN-S

Mechanical parameters

Maximal cable length	100 m
Cable dimension for RS485	2 x 0,5 mm ² — 2 x 1,5 mm ²
Degree of protection	IP20
Ambient temperature	-25 °C — +40 °C
Altitude	\leq 2000 m
Relative humidity	\leq 75 %
Insulation class	II
Weight	0.2 kg

Technical Data Ex9EVD3 DLB

Dynamic Load Balance module

Wiring diagram

