Wall-mounted EV chargers Ex9EV

- **Tested according to IEC/EN 61851**
- **Installation directly on wall**
- **1phase or 3phase versions**
- **Charging current up to 32 A**
- **Plug type 1 (5 pins) or type 2 (7 pins)**
- **Including RCCB B type**
- **Degree of protection IP44**

Ex9EV 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 neccessery protection of EV chargers. The battery of EV is working on DC principe 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 1 or 3 phase connection. Connection cable with lenght of 5 m with one of two most common plugs (Type 1 or Type 2) is a part of delivery.

Type Key

Ex9	EV	1	T2	16A
Product family	Product	Number of phases	Plug type	Charging current
Ex9	EV: Wall-mounted EV charger	1 3	T1: Type 1 T2: Type 2	10 A 16 A 20 A 25 A 32 A

Certification marks

CE

Noark

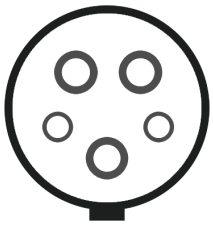
Wall-mounted EV chargers Ex9EV

EV charging wallboxes

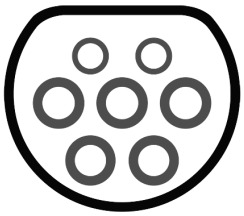
- 1phase or 3phase version
- Plug type 1 or type 2
- Charging current up to 32 A
- Integrated RCCB type B

Maximal charging current	Number of phases	Plug type CAR	Article No.	Type	Packing
10A	1 phase	Type 1	110256	Ex9EV1 T1 10A	1/4
16A	1 phase	Type 1	110494	Ex9EV1 T1 16A	1/4
20A	1 phase	Type 1	110495	Ex9EV1 T1 20A	1/4
25A	1 phase	Type 1	110496	Ex9EV1 T1 25A	1/4
32A	1 phase	Type 1	110497	Ex9EV1 T1 32A	1/4
10A	1 phase	Type 2	110257	Ex9EV1 T2 10A	1/4
16A	1 phase	Type 2	110498	Ex9EV1 T2 16A	1/4
20A	1 phase	Type 2	110499	Ex9EV1 T2 20A	1/4
25A	1 phase	Type 2	110500	Ex9EV1 T2 25A	1/4
32A	1 phase	Type 2	110501	Ex9EV1 T2 32A	1/4
10A	3 phase	Type 2	110258	Ex9EV3 T2 10A	1/4
16A	3 phase	Type 2	110502	Ex9EV3 T2 16A	1/4
20A	3 phase	Type 2	110503	Ex9EV3 T2 20A	1/4
25A	3 phase	Type 2	110504	Ex9EV3 T2 25A	1/4
32A	3 phase	Type 2	110505	Ex9EV3 T2 32A	1/4

EV plug types



Type 1



Type 2

Technical Data Ex9EV

EV charging wallboxes

General parameters

Static EV charging solution - installation directly on a wall
Charging current from 10 to 32 A
Integrated RCCB type B (Ex9LB63)
Information about setting and usage are in manual available at www.noark-electric.eu

Electrical parameters

	Ex9EV1 T1	Ex9EV1 T2	Ex9EV3 T2
Tested according to	IEC/EN 61851		
Rated operating voltage U_e	230 V AC ± 10%	230 V AC ± 10%	400 V AC ± 10%
Rated frequency f	50 / 60 Hz		
Maximal charging current I_{max}	10 / 16 / 20 / 25 / 32 A		
Maximal charging power P_{max}	2.3 / 3.7 / 4.6 / 5.8 / 7.4 kW		6.9 / 11.0 / 13.8 / 17.3 / 22.1 kW
Integrated RCCB			
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	TN-S		
Self consumption	< 10 W		

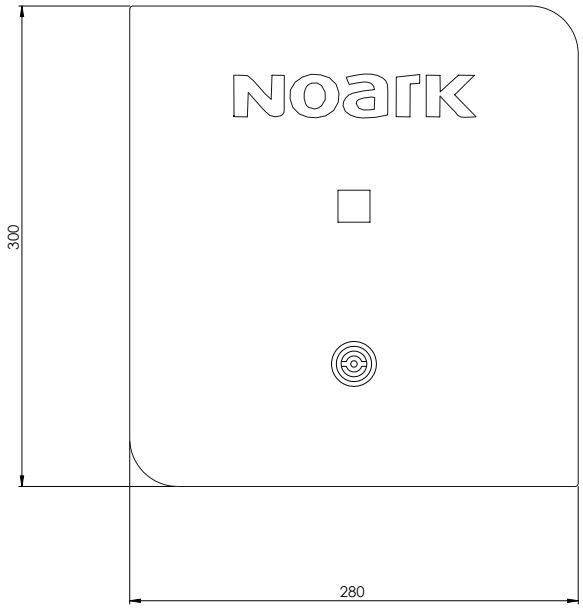
Mechanical parameters

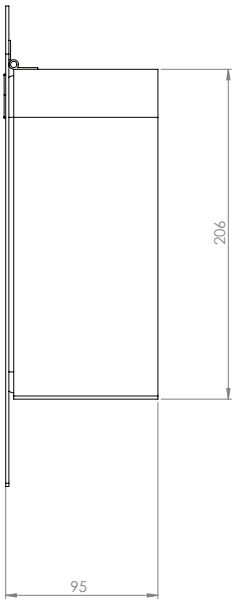
Cable length	5 m		
Cable dimension	3 x 6 mm^2 + 2 x 0.5 mm^2		5 x 6 mm^2 + 2 x 0.5 mm^2
Recommended cross-section of inlet cable (10 / 16 / 20 / 25 / 32 A)	2.5 / 2.5 / 4 / 4 / 6 mm^2		
EV plugs	Type 1 / SAE J1772	Type 2 / IEC 62196-2	
Degree of protection			
wallbox	IP44		
plugs (when connected)	IP44		
Ambient temperature	-25 °C — +40 °C		
Altitude	≤ 2000 m		
Relative humidity	≤ 75 %		
Insulation class	II		
Weight	4.75 kg		6 kg

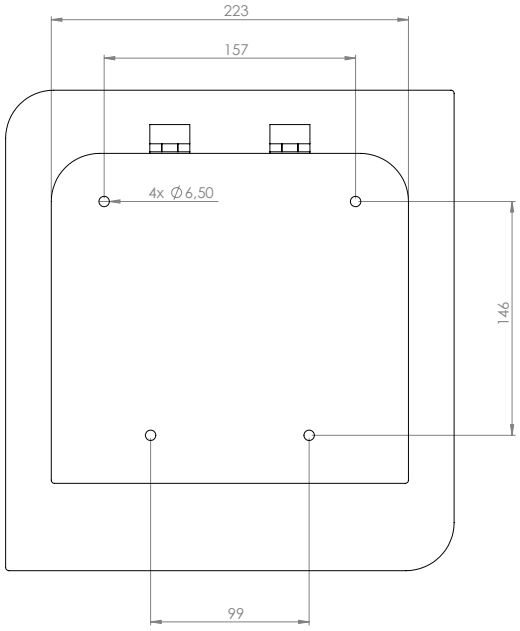
Technical Data Ex9EV

EV charging wallboxes

Dimensions





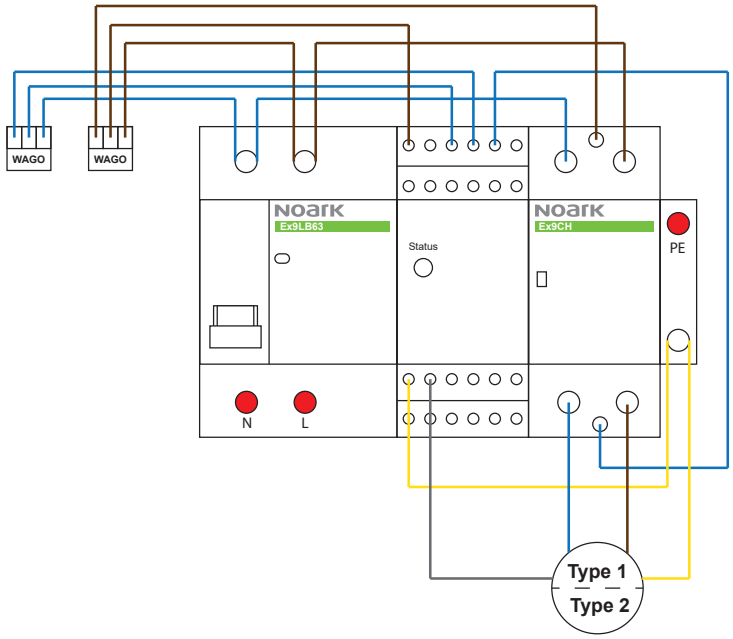


Technical Data Ex9EV

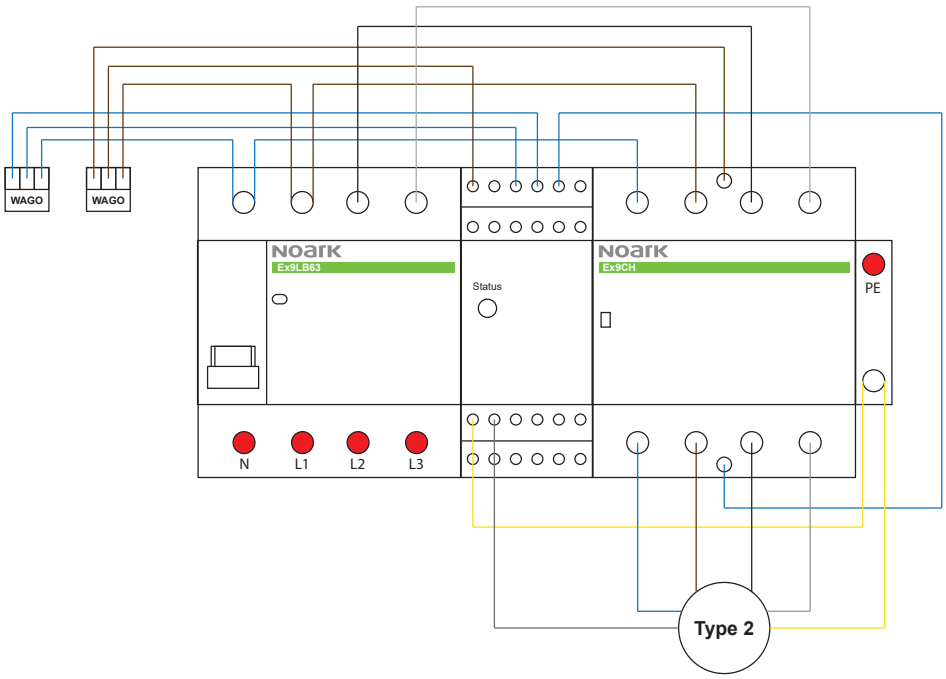
EV charging wallboxes

Wiring diagram

Ex9EV1 T1 / Ex9EV1 T2



Ex9EV3 T2



● inlet connection