



BENY User and Installation Manual

ZHEJIANG BENYI NEW ENERGY CO.,LTD.

SHUANGHUANGLU INDUSTRIAL ZONE, BEIBAIXIANG TOWN, YUEQING CITY, WENZHOU CITY, ZHEJIANG PROVINCE, CHINA.

TEL: +86-577-5717 7008 FAX: +86-577-5717 7007

✉ info@evb.com

🌐 www.evb.com

♻️ This catalogue has been printed on ecological paper.

© Zhejiang Benyi New Energy Co., Ltd. All rights reserved.

⚠️ If the models and specifications in this product catalogue change due to product updates, we will not provide prior notification.



VERSION: 20250614-01

WWW.EVB.COM

BENY



G R E E N S M A R T

CONTENTS

• Features	P-01
• Model Specification Table	P-01
• Instructions for Use of Distribution Box Models	P-02
• Model No.and Function	P-02
• Specification	P-03
• Wiring Diagram	P-04
• Real photos	P-08

> Features

- The protection boxes are especially designed for our AC EV Charger. The power is input from top left and output from bottom right. For powering on the box, you need to turn on RCBO at first, and then turn on Under-voltage Release. For powering off the box, you only need to turn off RCBO, the Under-voltage Release will release automatically.

Shunt Release:

- Shunt Release is for the function of Contactor Adhesion Protection

RCBO

- It is TYPE A RCBO, it has over-load and short circuit protection, which is compliant with IEC standard of leakage safety requirements for onboard RCD EV Charger

PEN Fault Detection

- Under-voltage Release will release automatically when the voltage of L and N line is under 160V, then all the line includes L1, L2, L3, N, PE to the EV Charger will be cut off, then the EV charger will be totally powered off. This function can keep the person safety, when the person touch the EV charger in the case of PEN line is fault.

Ingress Protection

- IP65, on the bottom of the box has pre-installed waterproof connector, which is more convenient.

> Model Specification Table

B	CP	P	3	N
↓	↓	↓	↓	↓
Company code	Scenario	Usage	The Chargers classification	PEN
B: BENY NEW ENERGY	CP: Residential use	P: Protection Box	1: 1 phase 3: 3 phase 12: 1 phase dual sockets 32: 3 phase dual sockets	N: with PEN fault protection S: Surge protection M: Meter blank: without PEN fault protection

> Instructions for Use of Distribution Box Models

The distribution box is compatible with multiple models of the EV chargers models. Please refer to the table below about compatibility.

Distribution Box Models	EV Chargers Models
BCP-P1N, BCP-P1, BCP-P1S	BCP-A2-L, BCP-A2D-L, BCP-B2-L, BCP-B2D-L, BCP-A2N-L, BCP-B2N-L, BCP-A2N-P, BCP-B2N-P, BCPC-B2N-P, BCPM-A2N-P, BCPM-B2N-P, BCPCM-A2N-P, BCPCM-B2N-P
BCP-P3N, BCP-P3, BCP-P3S	BCP-AT2N-L, BCP-BT2N-L, BCP-AT2N-P, BCP-BT2N-P, BCPC-BT2N-P, BCPM-AT2N-P, BCPM-BT2N-P, BCPCM-AT2N-P, BCPCM-BT2N-P
BCP-P12	BCPC-D2N-P, BCPCM-C2N-P
BCP-P32	BCPC-DT2N-P, BCPCM-CT2N-P, BCPCV-CT2N-P, BCPCV-DT2N-P
BCP-P1M	BCP-A2N-P, BCP-B2N-P
BCP-P3M	BCP-AT2N-P, BCP-BT2N-P

> Model No. and Function

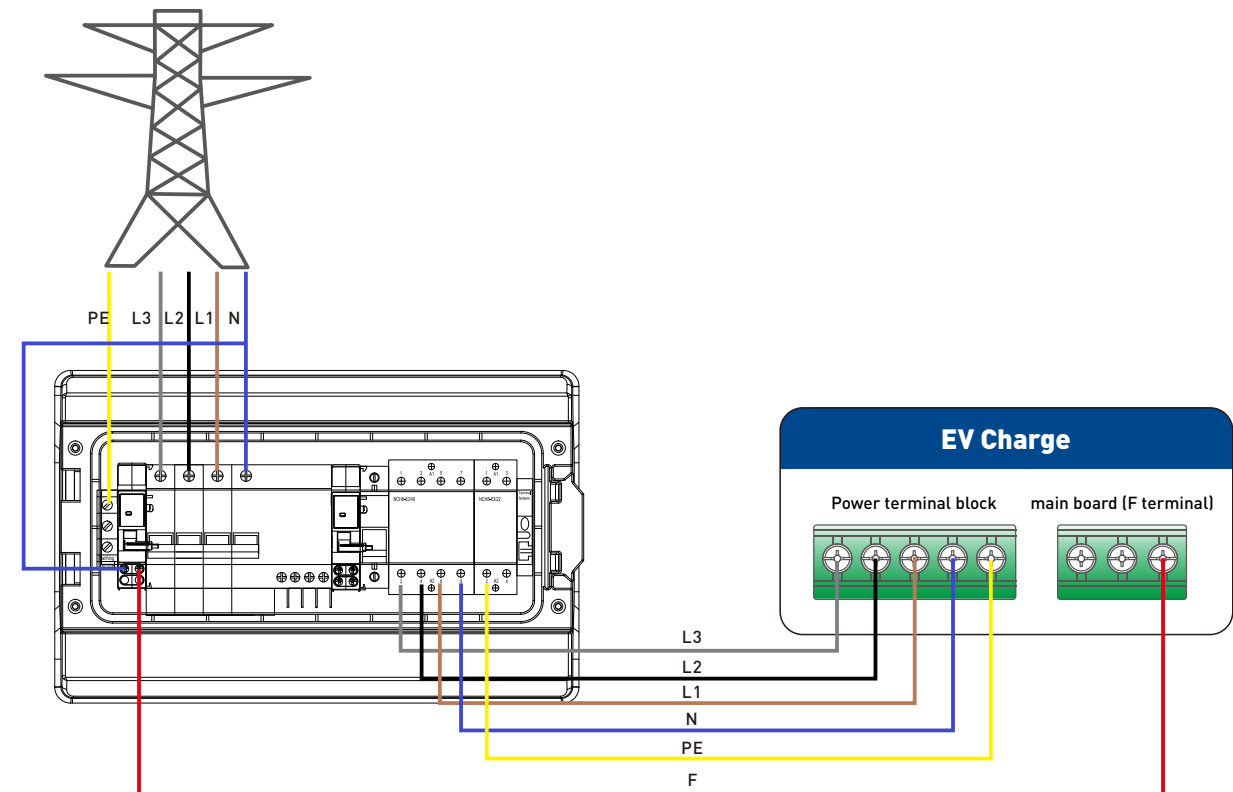
	Shunt Release	RCBO	Over-load protection	Short Circuit Protection	PEN Fault Detection	Meter
BCP-P1N	√	Type A 1P+N	√	√	√	×
BCP-P1M	√	Type A 2P	√	√	×	√
BCP-P1	√	Type A 2P	√	√	×	×
BCP-P3N	√	Type A 3P+N	√	√	√	×
BCP-P3M	√	Type A 4P	√	√	×	√
BCP-P3	√	Type A 4P	√	√	×	×
BCP-P12	√	Type A 2P	√	√	×	×
BCP-P32	√	Type A 3P+N	√	√	×	×
BCP-P1S	√	Type A 2P	√	√	×	×
BCP-P3S	√	Type A 4P	√	√	×	×

> Specifications

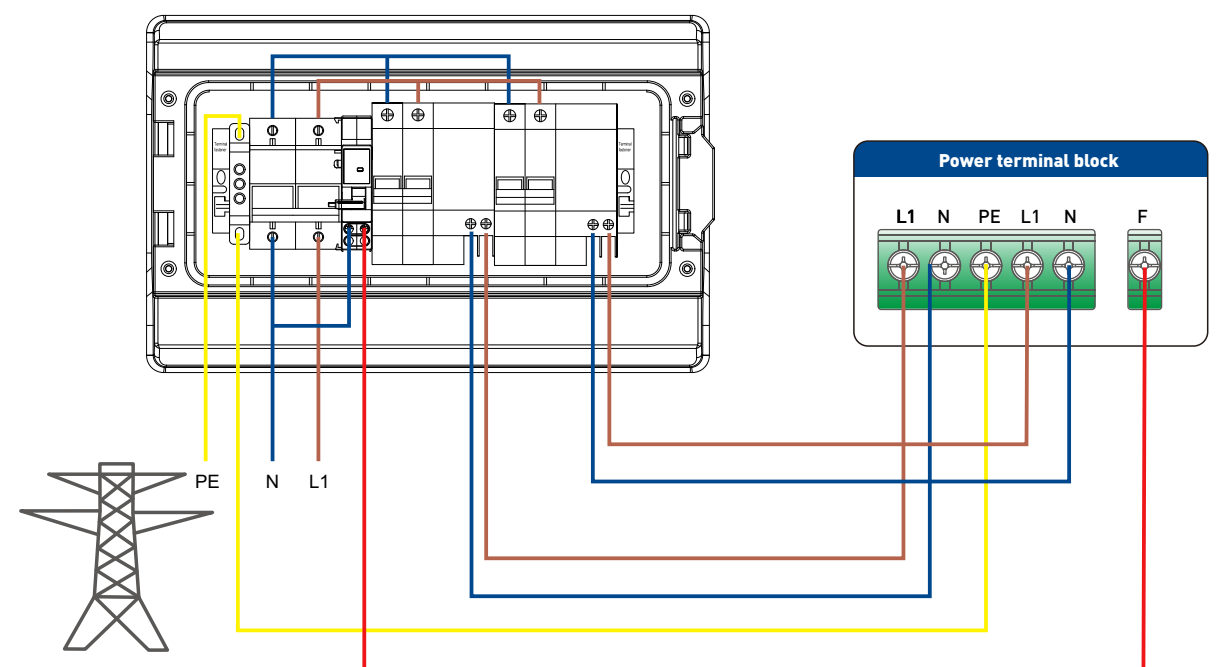
Rated Voltage	230Vac/400Vac
Rated Current	40A
Frequency	50/60HZ
Standby Power	<2W
Leakage Protector	Type A RCBO/30mA/6KA
PEN Fault Detection Trigger Voltage	<160Vac
Ingress Protection	IP65
Ambient humidity	<90% no condensation
Usage Altitude	≤2000M
Operating Temperature	-25°C~55°C
Size (L*W*H)	197*210*120mm (BCP-P1, BCP-P1N, BCP-P1M,BCP-P3)
	292*220*120mm (BCP-P12, BCP-P1S,BCP-P3M)
	334*210*122mm (BCP-P3N)
	304*373*132mm (BCP-P32,BCP-P3S)

> Wiring Diagram

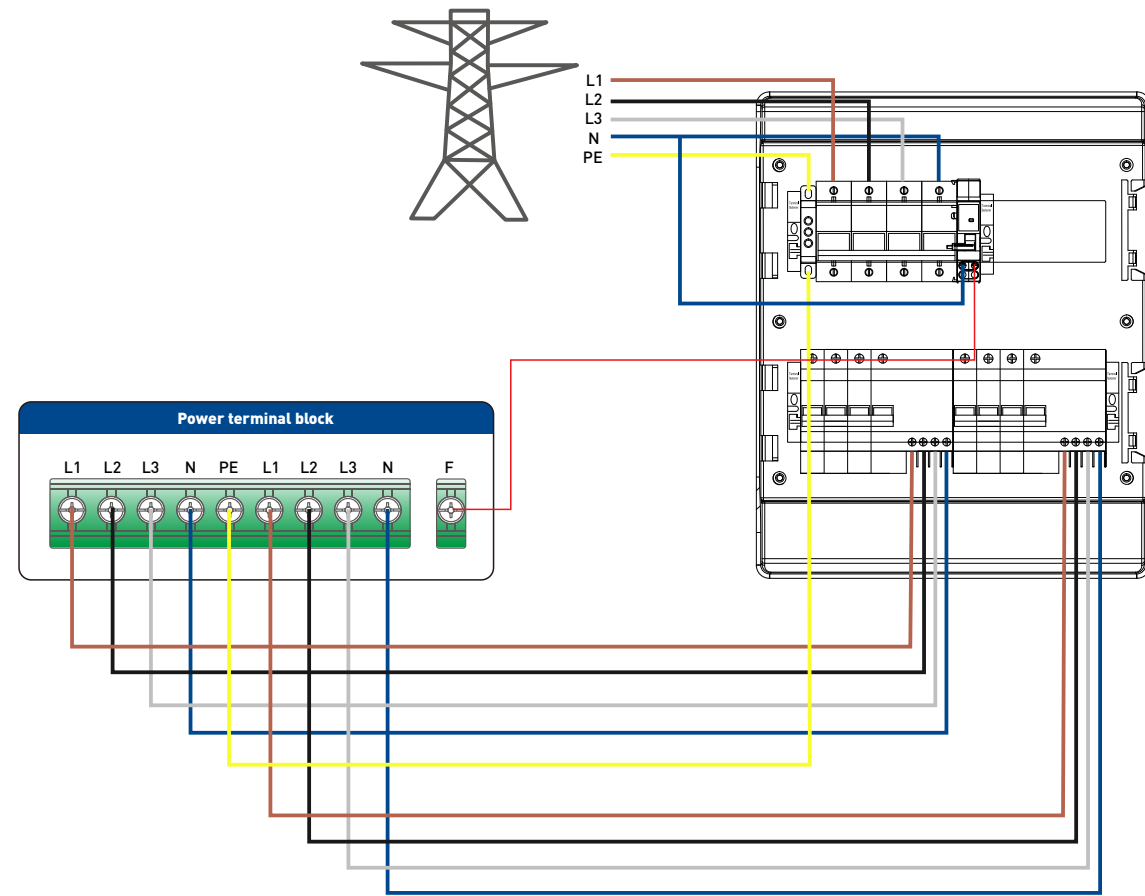
- BCP-P3N



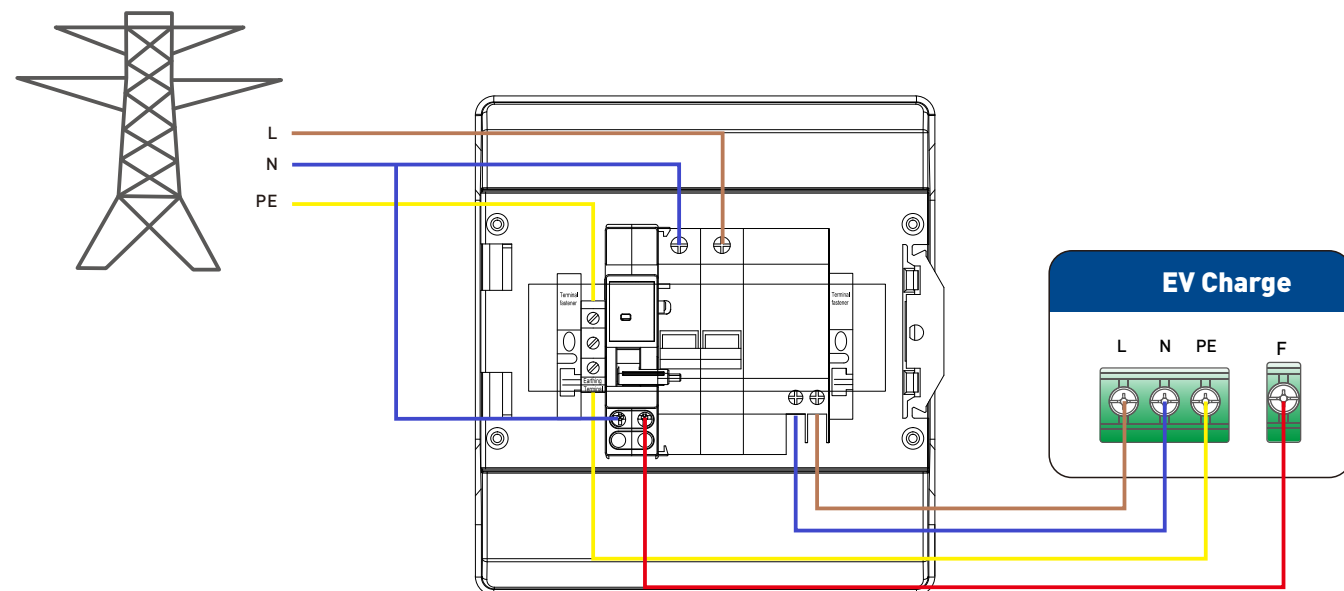
- BCP-P12



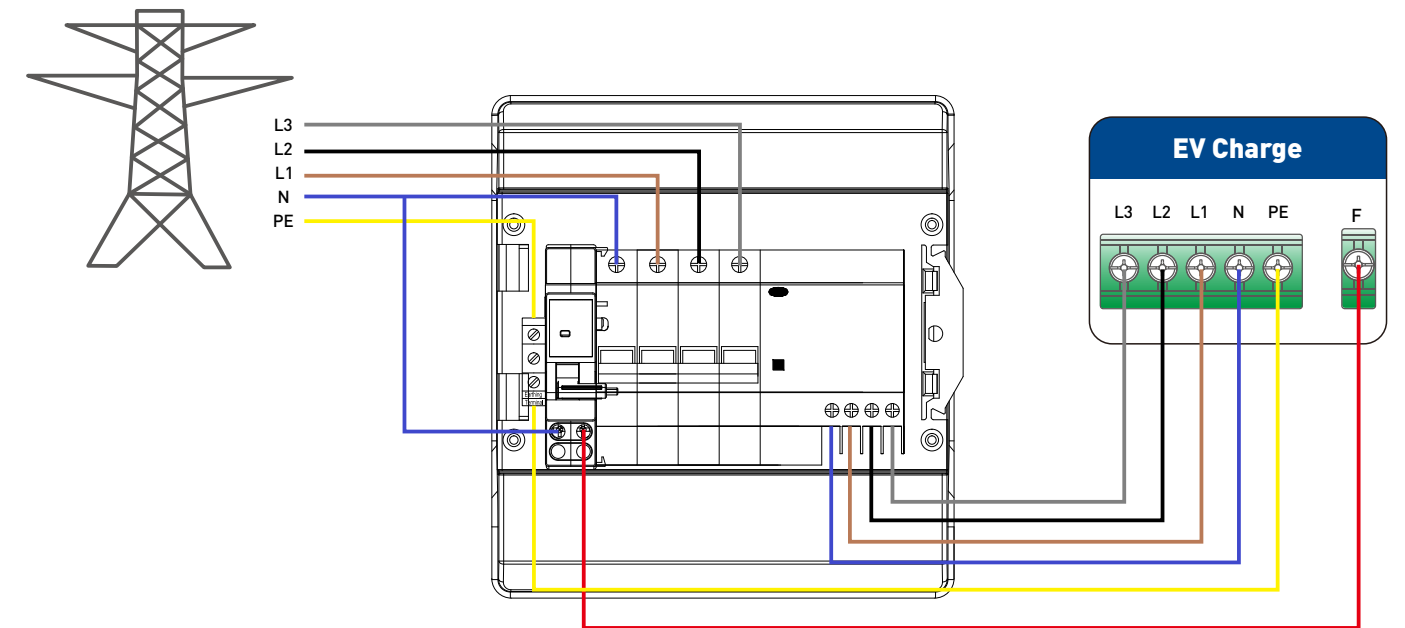
• BCP-P32



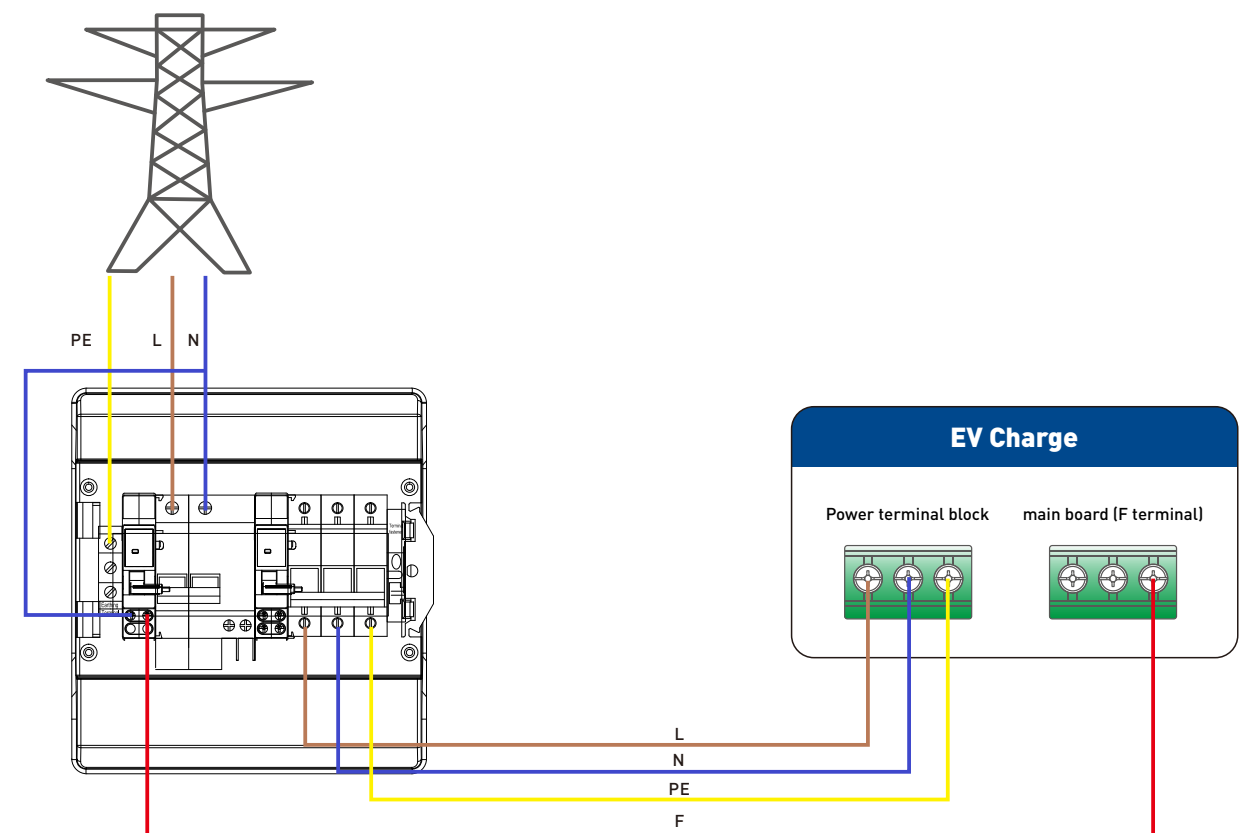
• BCP-P1



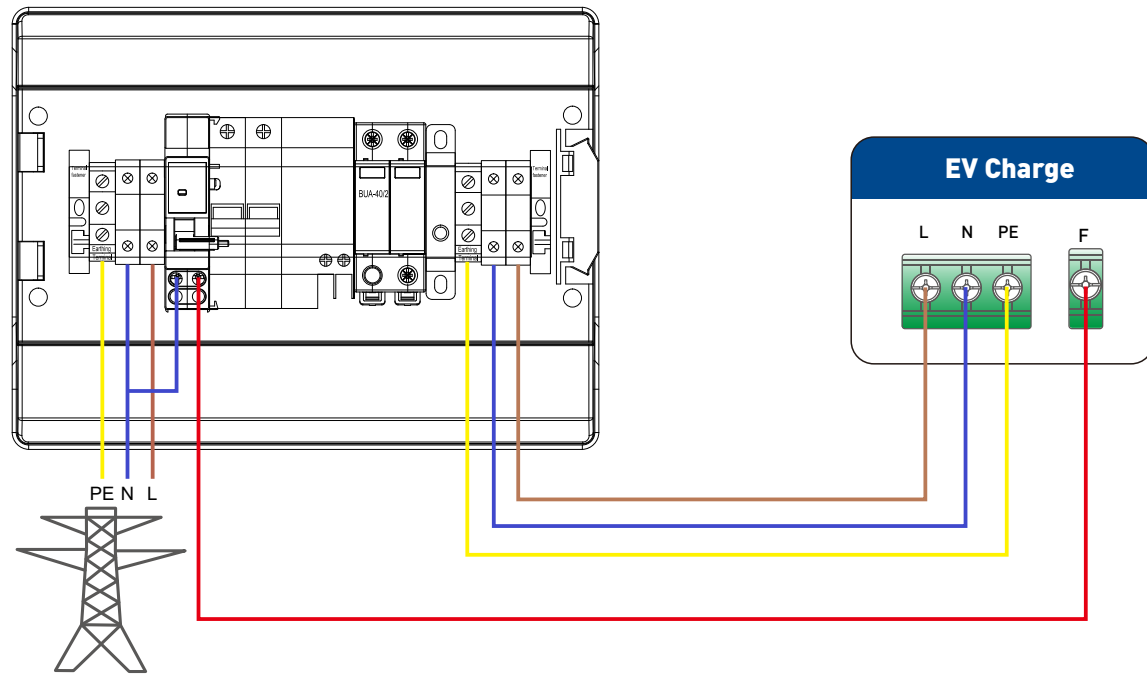
• BCP-P3



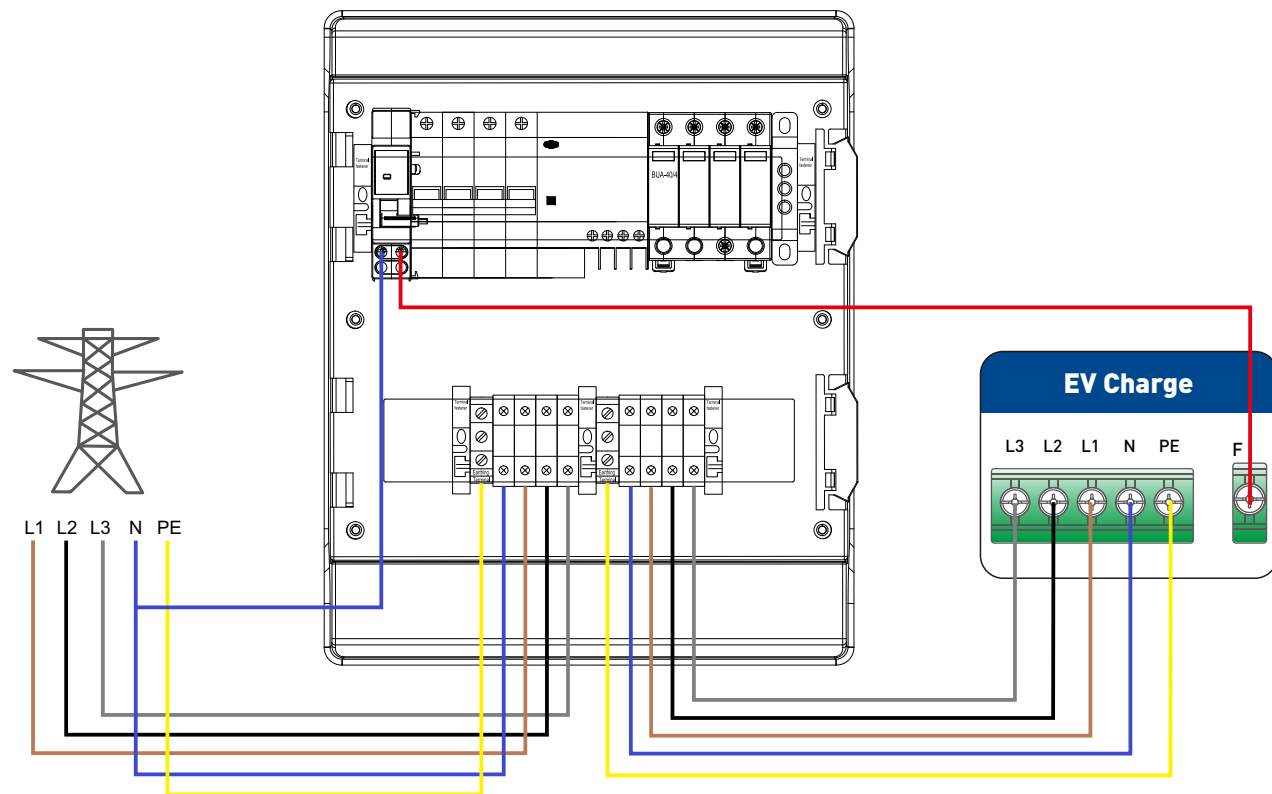
• BCP-P1N



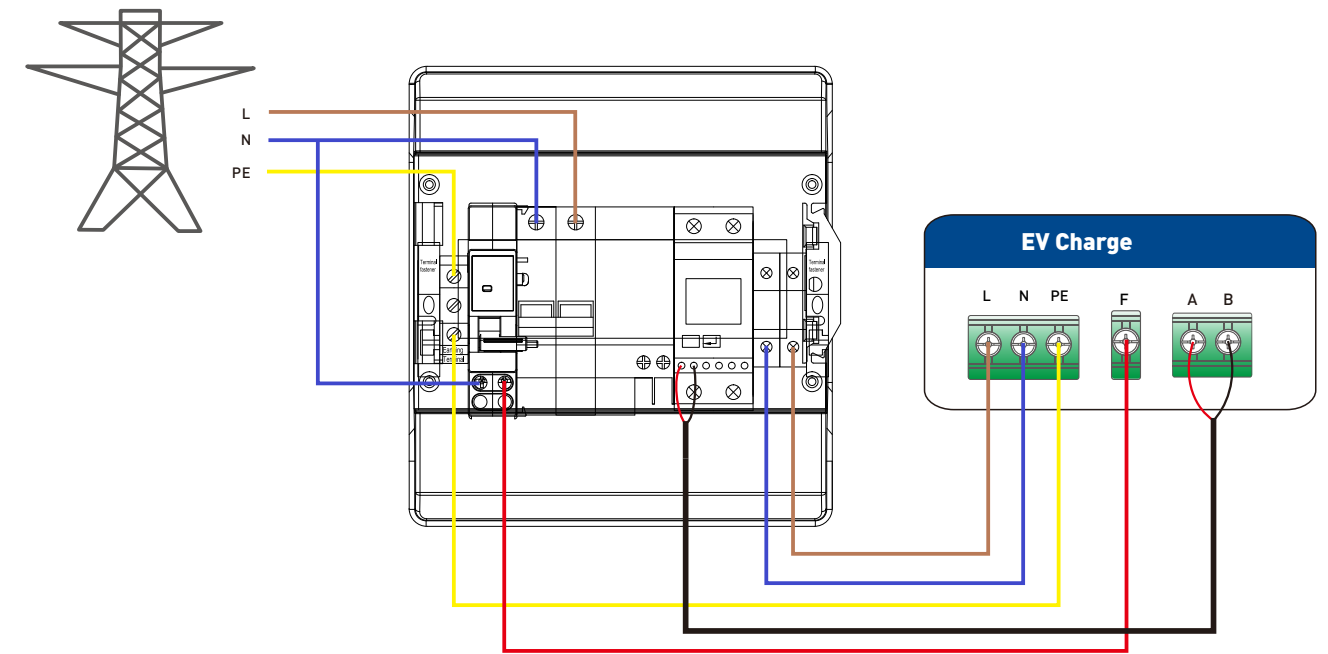
• BCP-P1S



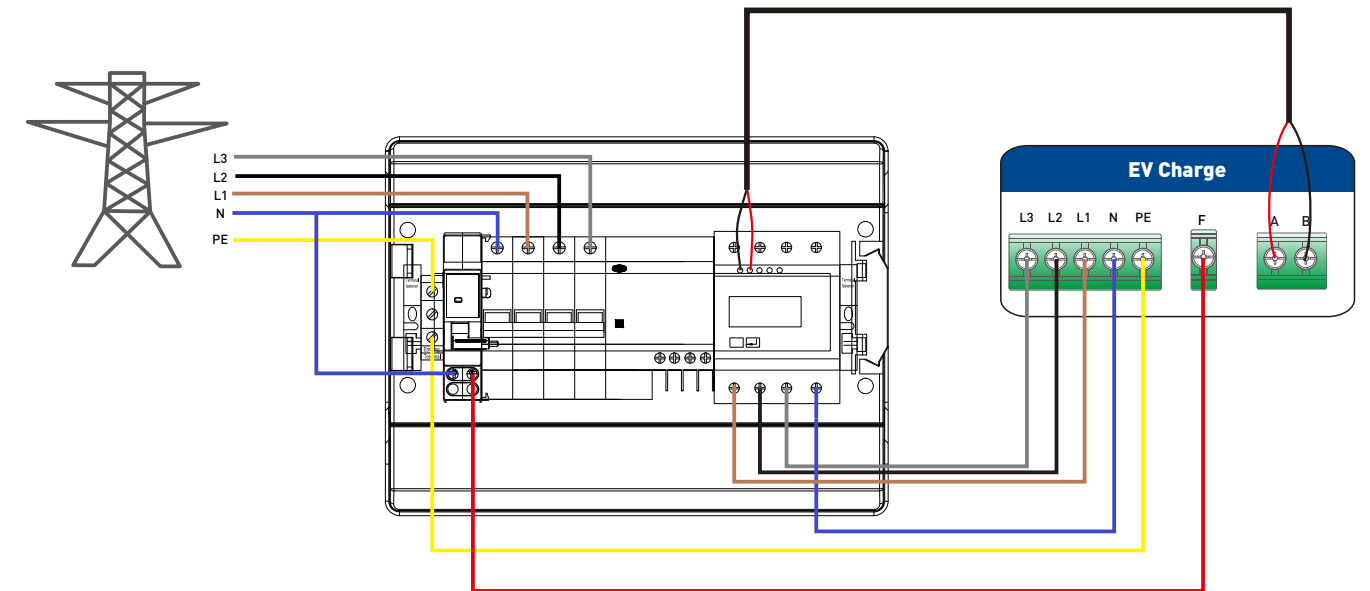
• BCP-P3S



• BCP-P1M



• BCP-P3M



> Real Photos

- BCP-P1N, BCP-P1, BCP-P3N, BCP-P3, BCP-P12, BCP-P32, BCP-P3S, BCP-P1S,BCP-P1M,BCP-P3M.

