



EKDB11SS



EKDB11SF

Product Overview

EKDB11S is a Single-phase Plug-in Distribution Board (Load Center) for low-voltage applications. It supports plug-in MCB and plug-in RCBO branch devices and is available in surface-mounted and flush-mounted versions. The incomer (main switch) supports up to 125A, with options of an Isolation Switch or an RCCB (Residual Current Circuit Breaker without overcurrent protection).

Application

Suitable for residential units and small commercial spaces (e.g., retail, offices) with single-phase service, including retrofit projects requiring fast installation and maintenance.

Product Features

Standards

Compliance: IEC 61439-3

Electrical and Incomer Options

- System: Single-phase.
- Main switch: supports up to 125A; options include Isolation Switch or RCCB (without overcurrent protection).
- Branch devices: plug-in MCB; plug-in RCBO.

Structure

- Plug-in branch interface for device installation and replacement.
- Standardized busbar/pan arrangement for consistent circuit layout.

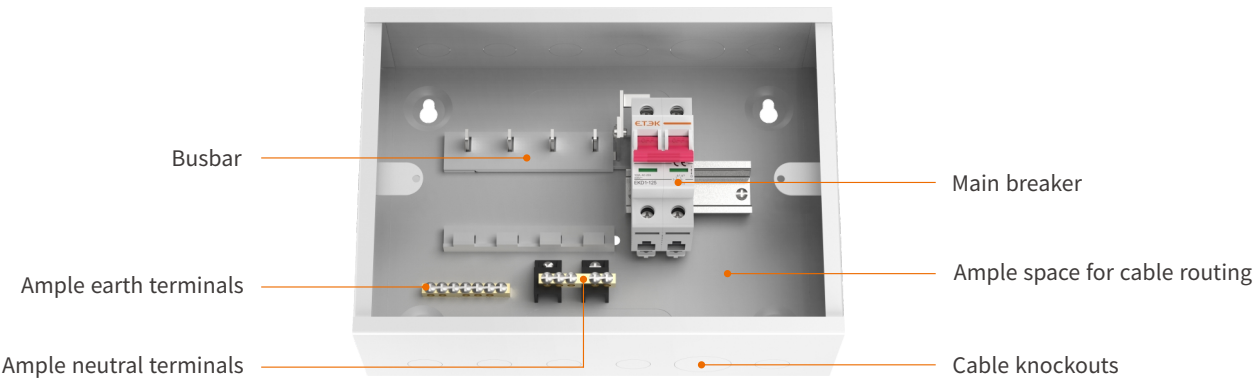
Installation

- Mounting options: surface-mounted; flush-mounted.
- Internal layout consistent across mounting variants.

Maintenance and Expansion

Plug-in interfaces support breaker replacement and circuit additions with limited wiring rework.

Internal Structure



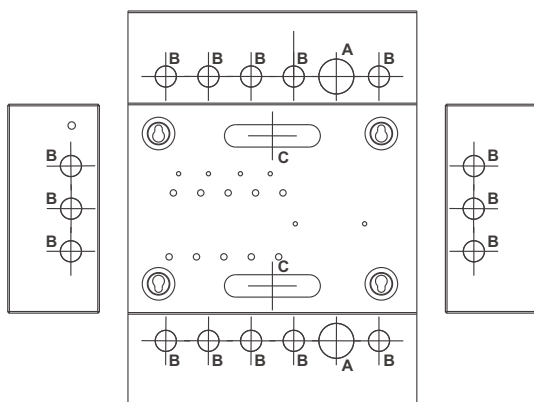
Type Designation

EK	DB11	S	F	-	12	I
↓	↓	↓	↓		↓	↓
①	②	③	④		⑤	⑥
Code name	Meaning		Code name	Meaning		
①	ETEK company		④	F: Flush-mounted S: Surface-mounted		
②	DB box design code		⑤	Outgoing ways: 4,6,8,10,12,14,16		
③	Single-phase circuit design		⑥	Main switch type: I: Isolator switch R: RCCB		

Technical Data

Model	EKDB11SF	EKDB11SS
Standard	IEC 61439-3	
No. of phase	Single phase	
Mounting type	Flush-mounted	Surface-mounted
Busbar rating	125A max.	
Voltage rating	240 VAC, 50/60Hz	
Rated insulation voltage (Ui)	690V	
No. of ways	4,6,8,10,12,14,16	
Ingress protection	IP40	
Steel sheet thickness	0.8mm	
Surface finishing	Powder coated with electrostatic epoxy polyester (RAL7035)	
Operational temperature range	-25°C to 55°C (Derating required; refer to breaker derating curves)	
Main incoming switch	RCCB; Isolator switch	
Branch breaker	Plug in type MCB	1,2P: 6, 10, 16, 20, 25, 32, 40, 50, 63A
	Plug in type RCBO	1P+N: 6,10,16,20,25,32,40,50,63A (I _{Δn} : 30,100,300mA)
Main breaker terminal capacity	Isolator switch	50mm ²
	RCCB	35mm ²
Branch breaker terminal capacity	Plug in type MCB	25mm ²
	Plug in type RCBO	25mm ²
Neutral terminal capacity	16mm ²	
Earth terminal capacity	16mm ²	
No. of outgoing terminals	≥ No. of ways	

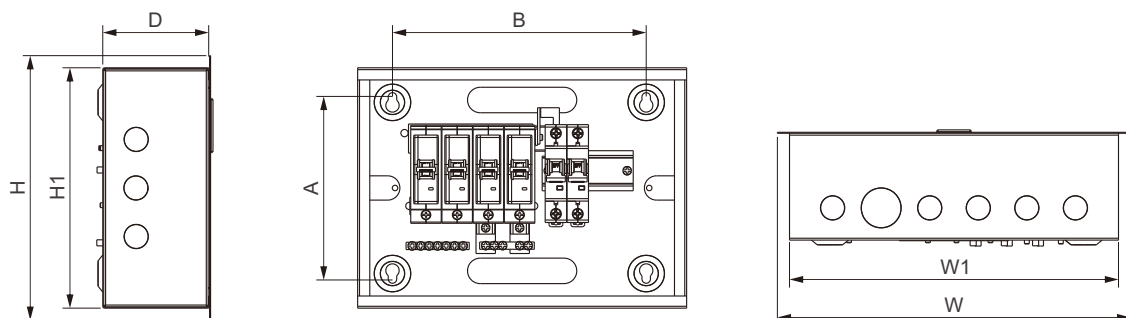
Knockout Details



EKDB11S Distribution Board is designed with multiple easy-to-remove knockouts on its body to facilitate cable installation and reduce clutter. The illustration shows the knockout design on the housing.

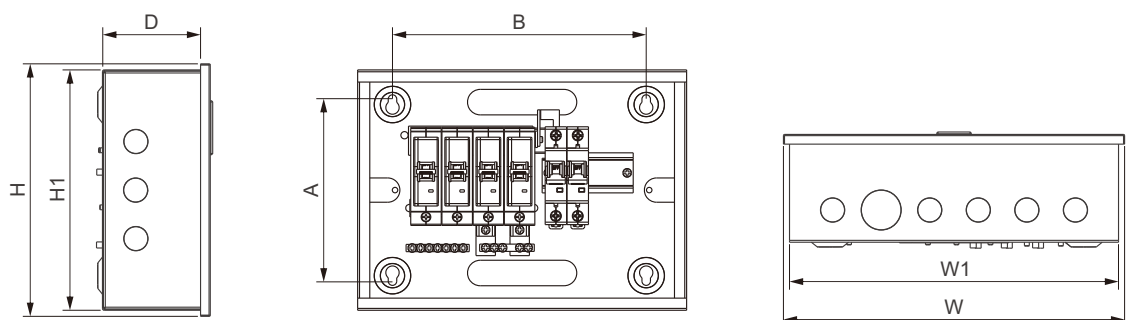
Knockout	Diameter (mm)
A	Ø33
B	Ø20
C	21×90

Dimension (mm)



Flush-mounted

Ref No.	Outgoing ways	W	W1	H	H1	D	A	B
EKDB11SF-4	4	291	271	218	198	88	150	209
EKDB11SF-6	6	343	323	218	198	88	150	261
EKDB11SF-8	8	394	374	218	198	88	150	312
EKDB11SF-10	10	446	426	218	198	88	150	364
EKDB11SF-12	12	497	477	218	198	88	150	415
EKDB11SF-14	14	548	528	218	198	88	150	466
EKDB11SF-16	16	600	580	218	198	88	150	518



Surface-mounted

Ref No.	Outgoing ways	W	W1	H	H1	D	A	B
EKDB11SS-4	4	281	271	208	198	88	150	209
EKDB11SS-6	6	333	323	208	198	88	150	261
EKDB11SS-8	8	384	374	208	198	88	150	312
EKDB11SS-10	10	436	426	208	198	88	150	364
EKDB11SS-12	12	487	477	208	198	88	150	415
EKDB11SS-14	14	538	528	208	198	88	150	466
EKDB11SS-16	16	590	580	208	198	88	150	518