



Product Overview

EKDB7TF Three Phase Distribution Boards represent an efficient and secure low-voltage power distribution solution widely utilized in commercial buildings, industrial facilities, office environments, and various public establishments. Designed for three-phase systems, it supports either an MCCB as the main switch and is available in two enclosure types: 125A (maximum current 125A) and 250A (maximum current 250A). The sturdy metal enclosure, modular structure, and flush mounting ensure adaptability to various installation environments.

Features

- Standard: IEC 61439-3.
- Main switch: 125A MCCB or 250A MCCB.
- Mounting: Flush mounting.
- Configuration: Three phase models for flexible system compatibility.
- Circuit protection: Multiple outgoing circuits with MCB/RCBO options for comprehensive safety.
- Modular design: Organized internal layout for easy wiring, maintenance, and future expansion.
- Pan assembly height adjustment: Adjustable via four inner door screw holes-clockwise raises, counterclockwise lowers.
- Neutral & Earth bars: Optional, to suit different installation and safety needs.

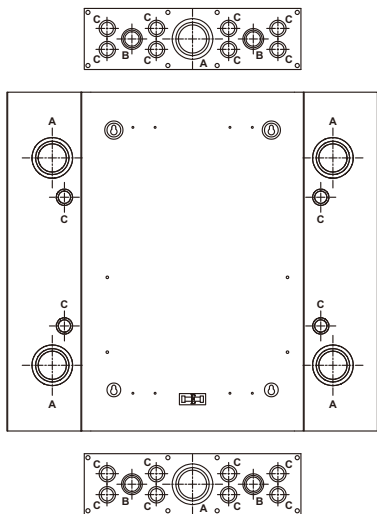
Model Preparation Meaning

EK	DB7	T	F	-	12	M1
↓	↓	↓	↓		↓	↓
①	②	③	④		⑤	⑥
Code name	Meaning		Code name	Meaning		
①	ETEK company		⑤	No. of ways: 125A Enclosure: 12,18,24,30,36,42 250A Enclosure: 12,18,24,30,36,42,48		
②	Design code		⑥	Main switch: M1: 125AF MCCB M2: 250AF MCCB		
③	Three-phase circuit design					
④	Flush-mounted					

Technical Data

Model	EKDB7TF	
Standard	IEC 61439-3	
No. of phase	Three phase	
Installation	Flush-mounted	
Current capacity	125A, 250A	
Voltage rating	415 VAC, 50/60Hz	
Rated insulation voltage (Ui)	690V	
No. of ways	125AF Enclosure	12,18,24,30,36,42
	250AF Enclosure	12,18,24,30,36,42,48
Ingress protection	IP40	
Steel sheet thickness	1mm (Default), Other thicknesses are customizable	
Surface finishing	Powder coated with electrostatic Epoxy polyester (RAL7035)	
Operational temperature range	-5°C to 40°C	
Main incoming switch	MCCB	
Main breaker terminal capacity	125AF MCCB: 50mm ² ; 250AF MCCB: 120mm ²	
Branch breaker terminal capacity	MCB: 25mm ² ; RCBO: 25mm ²	
Neutral terminal capacity	Incoming: 50mm ² ; Outgoing: 16mm ²	
Earth terminal capacity	Incoming: 50mm ² ; Outgoing: 16mm ²	
No. of outgoing terminals	≥ No. of ways	

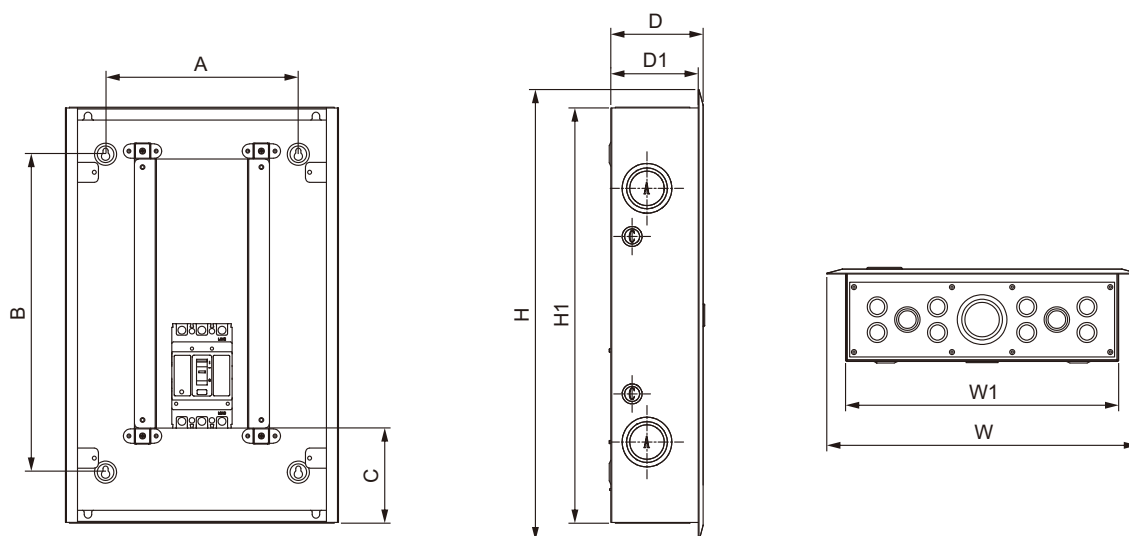
Knockout Details



EKDB7TF 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) (From inside to outside)
A	Ø43/ Ø51/ Ø62
B	Ø22/ Ø27/ Ø32
C	Ø19/ Ø25

Dimension (mm)



M1 Type 125AF Enclosure

Model	W	W1	H	H1	D	D1	A	B	C
EKDB7TF-12M1	387	340	562	516	115	109	240	396	117.5
EKDB7TF-18M1	387	340	616	570	115	109	240	450	117.5
EKDB7TF-24M1	387	340	670	624	115	109	240	504	117.5
EKDB7TF-30M1	387	340	724	678	115	109	240	558	117.5
EKDB7TF-36M1	387	340	778	732	115	109	240	612	117.5
EKDB7TF-42M1	387	340	832	786	115	109	240	666	117.5

M2 Type 250AF Enclosure

Model	W	W1	H	H1	D	D1	A	B	C
EKDB7TF-12M2	387	340	637	591	115	109	240	471	167.5
EKDB7TF-18M2	387	340	691	645	115	109	240	525	167.5
EKDB7TF-24M2	387	340	745	699	115	109	240	579	167.5
EKDB7TF-30M2	387	340	799	753	115	109	240	633	167.5
EKDB7TF-36M2	387	340	853	807	115	109	240	687	167.5
EKDB7TF-42M2	387	340	907	861	115	109	240	741	167.5
EKDB7TF-48M2	387	340	961	915	115	109	240	795	167.5