



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



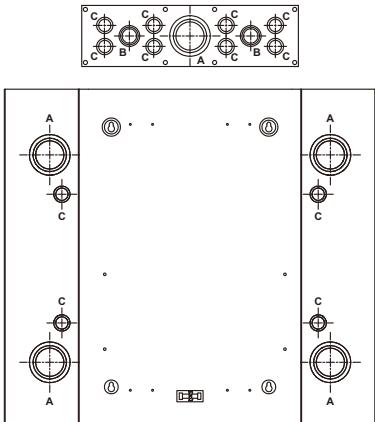
| Code name | Meaning |
|-----------|----------------------------|
| ① | ETEK company |
| ② | Design code |
| ③ | Three-phase circuit design |
| ④ | Flush-mounted |

| Code name | Meaning |
|-----------|---|
| ⑤ | No. of ways: 125A Enclosure: 12,18,24,30,36,42 250A Enclosure: 12,18,24,30,36,42,48 |
| ⑥ | Main switch: M1: 125AF MCCB M2: 250AF MCCB |

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 | |

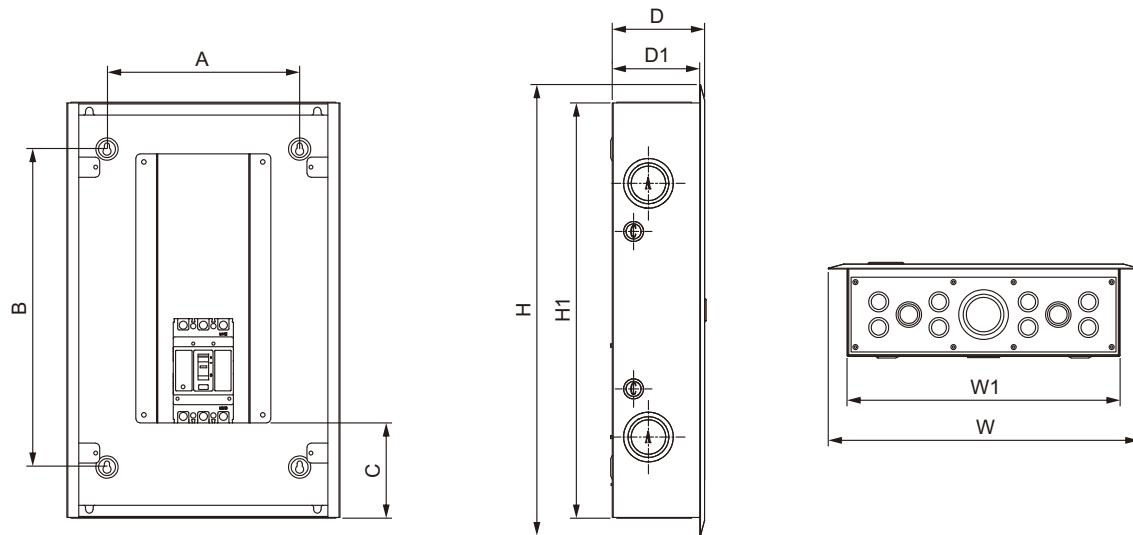
Knockout Details



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 |