

EKDB16S



Overview

ETEK EKDB16S(L) Consumer unit is designed to comply to the BS EN 61439-3. Constructed with non-combustible and durable metal casings, it provides a reliable, safe, and flexible solution for electrical installations. Its range of Metal Consumer is available from the 4 Ways up to 36 Ways.

Features

- Offers two types of enclosure: EKDB16S is the basic model; EKDB16SL integrated door lock.
- Backed out and captive combi-head screws, allows simple and speedy installation.
- Easily removable Din Rail.
- Color coded earth and neutral terminal locked at top of unit for ease of wiring.
- Fixing holes Tripod fixing to cope with uneven surfaces.
- Supporting Din Rail 'T' Bar Additional support to prevent bowing.

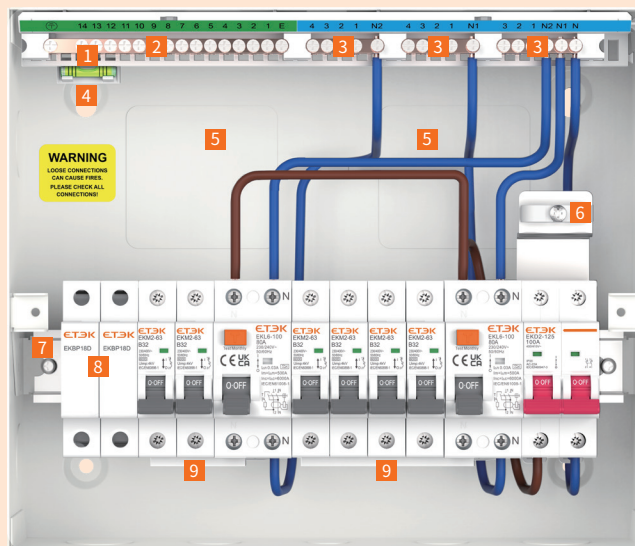
Consumer Unit Selection Guide

- Determine the type of consumer unit configuration required. e.g Split Load, Split Load, RCD Incomer, Dual RCD, High Integrity or Duplex. For each Switch Disconnect or RCD to be used allow 2 modular ways.
- Determine the number of outgoing circuits required. e.g Cooker, Lighting, Ring Main etc. For each circuit to be protected by an MCB or RCBO allow 1 modular way.
- Determine the number of 'spare' modular ways required for future upgrades.
- Now add together the total number of modular ways required.
- Select from our range of Metal consumer units choose the type and size most appropriate for your requirements.

EKDB16SL



Note All our consumer units are supplied with complete complement of earth and neutral terminals along with marking labels, Keyway DIN rail.
At the same time, we also provide Mains Tail Clamp, Snap-able busbar, Busbar Caps, DIN rail blank, Retrofit Locking Device, Grommet Strip, Link Cables, and other related accessories. If you have any need, you can confirm before placing an order.



- 1 Integrated spirit level (optional)
- 2 Earth terminals
- 3 Neutral terminals
- 4 Key holes for easy mounting
- 5 Large space for wiring
- 6 Mains tail clamp
- 7 Keyway DIN rail
- 8 Multi-function DIN rail blank
- 9 Snap-able busbar

Instruction of Type code

EK

↓
①

DB16S

↓
②

14

↓
③

L

↓
④

-

I2RS

↓
⑤

Code name	Meaning
①	ETEK Company
②	DB box design code
③	Enclosure Size: 4,6,10,14,18,24,28,36

Code name	Meaning
④	Blank: No lock L: Integrated door lock
⑤	I: Isolator 2: Quantity of RCD (1 or 2) R: RCD S: With SPD

Main Switch Consumer Unit



Ref No.	Ref No. (with lock)	Box size	Main switch	Busbar pins	Free ways
EKDB16S4-I	EKDB16S4L-I	4	DP 100A	3	2
EKDB16S6-I	EKDB16S6L-I	6	DP 100A	5	4
EKDB16S10-I	EKDB16S10L-I	10	DP 100A	9	8
EKDB16S14-I	EKDB16S14L-I	14	DP 100A	13	12
EKDB16S18-I	EKDB16S18L-I	18	DP 100A	17	16
EKDB16S24-I	EKDB16S24L-I	24	DP 100A	23	22

Allows for the use of MCBs, throughout.

Main Switch Consumer Unit with SPD T2 40kA



Ref No.	Ref No. (with lock)	Box size	Main switch	SPD	Busbar pins	Free ways
EKDB16S10-IS	EKDB16S10L-IS	10	DP 100A	T2 40kA	9	7
EKDB16S14-IS	EKDB16S14L-IS	14	DP 100A	T2 40kA	13	11
EKDB16S18-IS	EKDB16S18L-IS	18	DP 100A	T2 40kA	17	15
EKDB16S24-IS	EKDB16S24L-IS	24	DP 100A	T2 40kA	23	21

Main Switch Consumer Unit with SPD T2 40kA+MCB B32A



Ref No.	Ref No. (with lock)	Box size	Main switch	SPD	MCB	Busbar pins	Free ways
EKDB16S10-ISM	EKDB16S10L-ISM	10	DP 100A	T2 40kA	SP B32	8	6
EKDB16S14-ISM	EKDB16S14L-ISM	14	DP 100A	T2 40kA	SP B32	12	10
EKDB16S18-ISM	EKDB16S18L-ISM	18	DP 100A	T2 40kA	SP B32	16	14
EKDB16S24-ISM	EKDB16S24L-ISM	24	DP 100A	T2 40kA	SP B32	22	20

Split Load Consumer Unit with Main Switch and RCD



Ref No.	Ref No. (with lock)	Box size	Main switch	RCD	Busbar pins	Free ways
EKDB16S10-IR	EKDB16S10L-IR	10	DP 100A	DP 80A	2×4	6
EKDB16S14-IR	EKDB16S14L-IR	14	DP 100A	DP 80A	2×6	10
EKDB16S18-IR	EKDB16S18L-IR	18	DP 100A	DP 80A	2×8	14
EKDB16S24-IR	EKDB16S24L-IR	24	DP 100A	DP 80A	2×11	20

An arrangement which allows the use of MCBs, RCBOs & AFDDs immediately following the Main Switch and MCBs following the Split Load RCD.

Split Load Consumer Unit with Main Switch and RCD+SPD T2 40kA



Ref No.	Ref No. (with lock)	Box size	Main switch	RCD	SPD	Busbar pins	Free ways
EKDB16S14-IRS	EKDB16S14L-IRS	14	DP 100A	DP 80A	T2 40kA	2×6	9
EKDB16S18-IRS	EKDB16S18L-IRS	18	DP 100A	DP 80A	T2 40kA	2×8	13
EKDB16S24-IRS	EKDB16S24L-IRS	24	DP 100A	DP 80A	T2 40kA	2×11	19

RCD Incomer Consumer Unit



Ref No.	Ref No. (with lock)	Box size	RCD	Busbar pins	Free ways
EKDB16S4-R	EKDB16S4L-R	4	DP 80A	3	2
EKDB16S6-R	EKDB16S6L-R	6	DP 80A	5	4
EKDB16S10-R	EKDB16S10L-R	10	DP 80A	9	8

Less common than the other types, an RCD incomer does not use a main switch. They are usually used as a sub-board to a main distribution panel.

Dual RCDs Consumer Unit with Main Switch and RCDs



Ref No.	Ref No. (with lock)	Box size	Main switch	RCD	Busbar pins	Free ways
EKDB16S14-I2R	EKDB16S14L-I2R	14	DP 100A	2×DP 80A	2×5	8
EKDB16S18-I2R	EKDB16S18L-I2R	18	DP 100A	2×DP 80A	2×7	12
EKDB16S24-I2R	EKDB16S24L-I2R	24	DP 100A	2×DP 80A	2×10	18

This unit utilizes MCBs throughout divided between two RCCBs. Circuit independence or separate electrical protection cannot be achieved here.

Dual RCDs Consumer Unit with Main Switch and RCDs+SPD T2 40kA+MCB B32A



Ref No.	Ref No. (with lock)	Box size	Main switch	RCD	SPD	MCB	Busbar pins	Free ways
EKDB16S14-I2RS	EKDB16S14L-I2RS	14	DP 100A	2×DP 80A	T2 40kA	SP B32	2×4	6
EKDB16S18-I2RS	EKDB16S18L-I2RS	18	DP 100A	2×DP 80A	T2 40kA	SP B32	2×6	10
EKDB16S24-I2RS	EKDB16S24L-I2RS	24	DP 100A	2×DP 80A	T2 40kA	SP B32	2×9	16

Double Rows Main Switch Consumer Unit



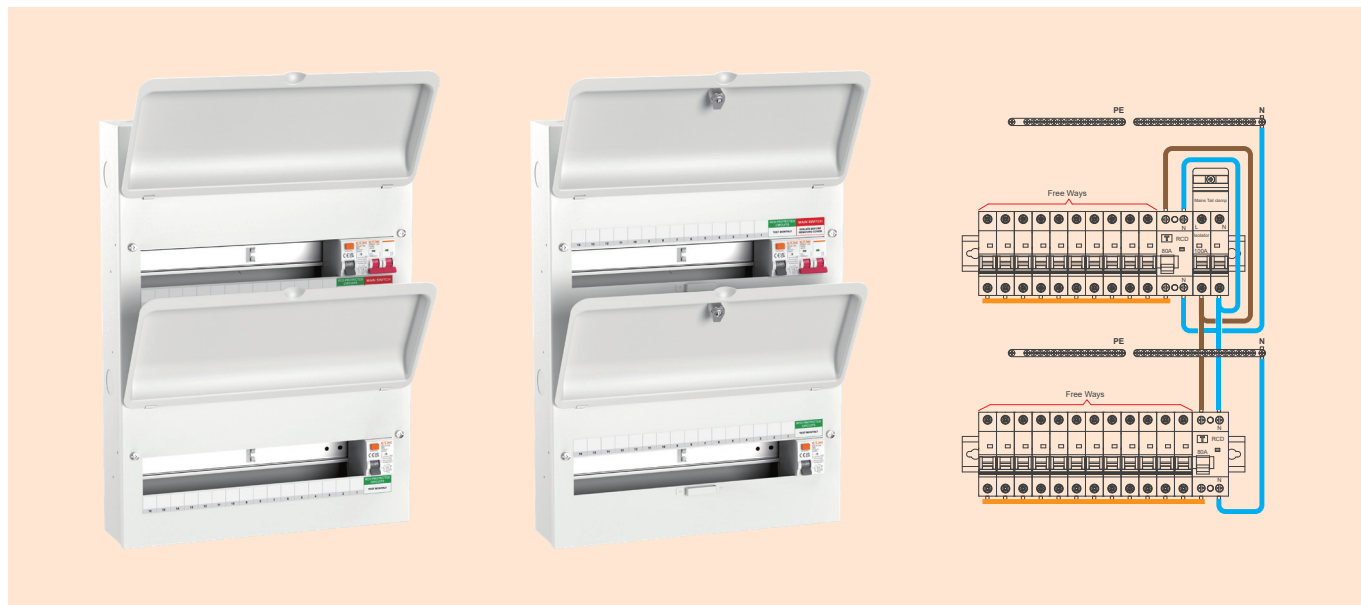
Ref No.	Ref No. (with lock)	Box size	Main Switch	Busbar pins	Free ways
EKDB16S28-I	EKDB16S28L-I	28	DP 100A	13+14	12+13
EKDB16S36-I	EKDB16S36L-I	36	DP 100A	17+18	16+17

Double Rows Main Switch Consumer Unit



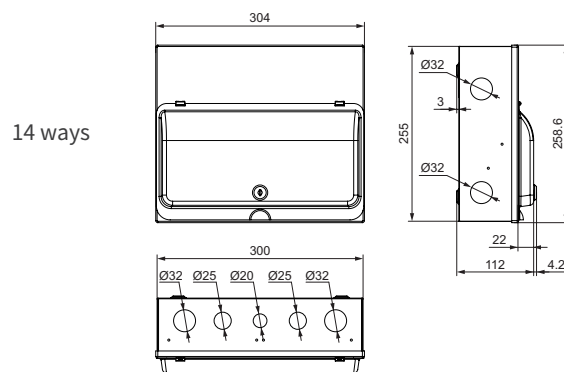
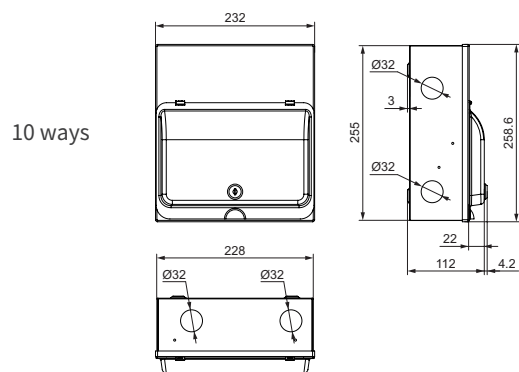
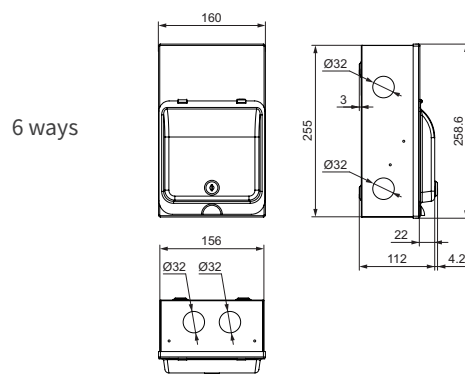
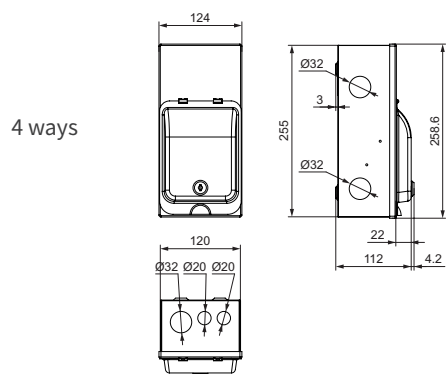
Ref No.	Ref No. (with lock)	Box size	Main Switch	RCD	Busbar pins	Free ways
EKDB16S28-IR	EKDB16S28L-IR	28	DP 100A	DP 80A	2×13	12+12
EKDB16S36-IR	EKDB16S36L-IR	36	DP 100A	DP 80A	2×17	16+16

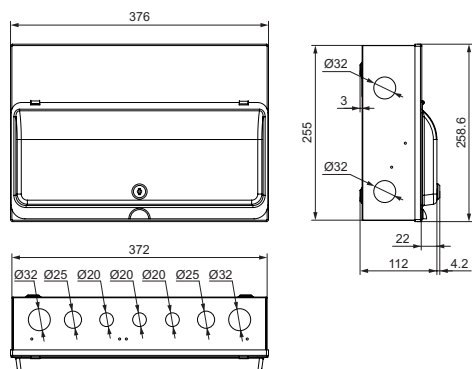
Double Rows Main Switch with RCD Consumer Unit



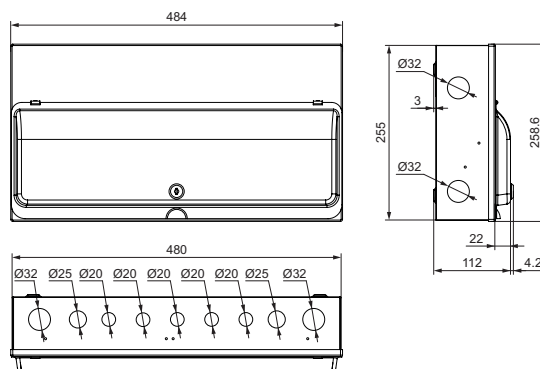
Ref No.	Ref No. (with lock)	Box size	Main Switch	RCD	Busbar pins	Free ways
EKDB16S28-I2R	EKDB16S28L-I2R	28	DP 100A	2 × DP 80A	11+13	10+12
EKDB16S36-I2R	EKDB16S36L-I2R	36	DP 100A	2 × DP 80A	15+17	14+16

Dimension (mm)

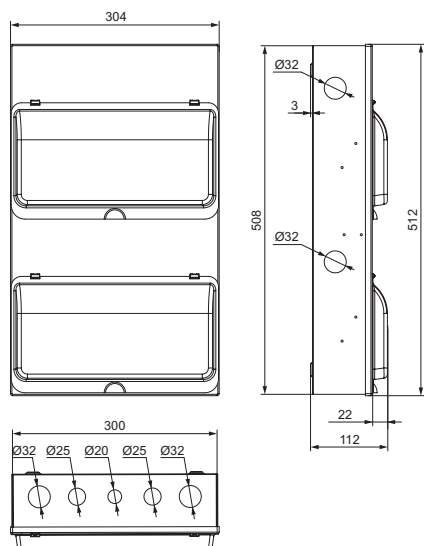




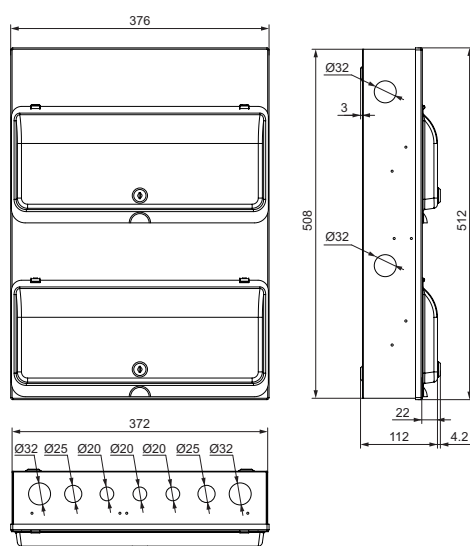
18 ways



24 ways



28 ways



36 ways