

MODULAR ENCLOSURES





PARTNERSHIP

SAFETY

DURABILITY

MODULAR ENCLOSURE

Applications

alfanar Modular Enclosures are standard products suitable for mounting various types of din rail mounted LV components. They are used for a safe and reliable distribution and control of power.



Figure - 1

1- AVAILABLE WITH UP TO 6 ROWS

2- ADJUSTABLE PAINTED MOUNTING ASSEMBLY MADE OF ELECTRO-GALVANIZED STEEL

3- EACH ROW CAPABLE OF HOLDING UP TO 24 DIN RAIL MODULES

4- MATT-FINISH POLYESTER POWDER COATED IN RAL-7035 LIGHT GREY COLOUR

MODULAR ENCLOSURE



Figure - 2



Figure - 3



Figure - 4

Specifications

- Made of high quality electro-galvanized steel sheet of thickness up to 1.2mm
- Matt-finish polyester powder coated in RAL-7035 light grey colour
- Complies with IEC 60529 standards
- Degree of protection IP41

Features

- Press-formed Dead Front Cover (DFC) and door for better strength and aesthetic look
- Circuit numbers are embossed on the DFC
- Knockouts on both top and bottom sides of the enclosure
- Adjustable painted rail mounting assembly made of electro-galvanized steel
- Spacious enclosures facilitating ease of wiring and efficient heat dissipation
- Easily removable hinges, ideal for changing the door-opening direction
- Available in Flush and Surface mounting types
- Available in models with 1 to 6 rows (for 16 module) and 4 to 6 rows (for 24 module)
- Each row capable of holding up to 24 din rail modules

Product Range

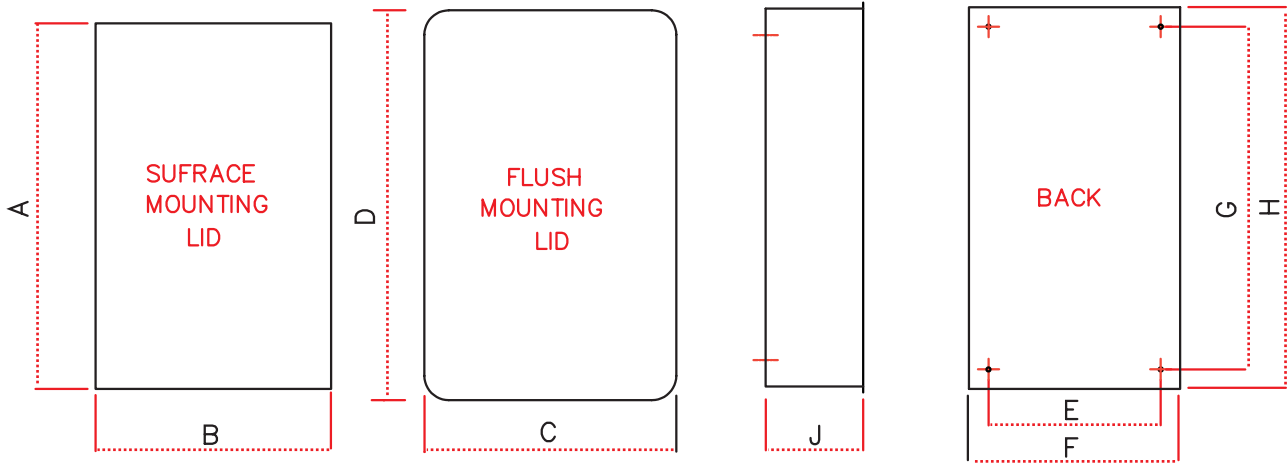


Figure - 5

MODULAR ENCLOSURES 12 MODULE WITH METAL DOOR & SLIDE LOCK

Rows	Order Reference	A	B	C	D	E	F	G	H	J
1	45-5112ML	315	365	380	325	270	350	220	300	115
2	45-5212ML	465	365	380	475	270	350	370	450	115
3	45-5312ML	615	365	380	625	270	350	520	600	115
4	45-5412ML	765	365	380	775	270	350	670	750	115
5	45-5512ML	915	365	380	925	270	350	820	900	115
6	45-5612ML	1065	365	380	1075	270	350	970	1050	115

MODULAR ENCLOSURES 16 MODULE WITH METAL DOOR & SLIDE LOCK

Rows	Order Reference	A	B	C	D	E	F	G	H	J
1	45-1116ML	305	445	465	325	360	440	220	300	115
2	45-1216ML	455	445	465	475	360	440	370	450	115
3	45-1316ML	605	445	465	625	360	440	520	600	115
4	45-1416ML	755	445	465	775	360	440	670	750	115
5	45-1516ML	905	445	465	925	360	440	820	900	115
6	45-1616ML	1055	445	465	1075	360	440	970	1050	115

MODULAR ENCLOSURE

Product Range

MODULAR ENCLOSURES 16 MODULE WITH METAL DOOR & KEY LOCK										
Rows	Order Reference	A	B	C	D	E	F	G	H	J
1	45-2116MK	285	415	430	300	315	400	194	270	100
2	45-2216MK	435	415	430	450	315	400	344	420	100
3	45-2316MK	585	415	430	600	315	400	494	570	100
4	45-2416MK	735	415	430	750	315	400	644	720	100
5	45-2516MK	885	415	430	900	315	400	794	870	100
6	45-2616MK	1035	415	430	1050	315	400	944	1020	100

MODULAR ENCLOSURES 16 MODULE WITH METAL DOOR, SLIDE LOCK, EARTH & NEUTRAL										
Rows	Order Reference	A	B	C	D	E	F	G	H	J
1	45-4116MLNE	285	415	430	300	320	400	194	274	110
2	45-4216MLNE	435	415	430	450	320	400	344	424	110
3	45-4316MLNE	585	415	430	600	320	400	494	574	110
4	45-4416MLNE	735	415	430	750	320	400	644	724	110
5	45-4516MLNE	885	415	430	900	320	400	794	874	110
6	45-4616MLNE	1035	415	430	1050	320	400	944	1024	110

MODULAR ENCLOSURES 16 MODULE WITH METAL DOOR, KEY LOCK, EARTH & NEUTRAL										
Rows	Order Reference	A	B	C	D	E	F	G	H	J
1	45-2116MKNE	285	415	430	300	315	400	194	270	100
2	45-2216MKNE	435	415	430	450	315	400	344	420	100
3	45-2316MKNE	585	415	430	600	315	400	494	570	100
4	45-2416MKNE	735	415	430	750	315	400	644	720	100
5	45-2516MKNE	885	415	430	900	315	400	794	870	100
6	45-2616MKNE	1035	415	430	1050	315	400	944	1020	100

MODULAR ENCLOSURES 16 MODULE WITH TRANSPARENT DOOR & KEY LOCK										
Rows	Order Reference	A	B	C	D	E	F	G	H	J
1	45-2116TK	285	415	430	300	315	400	194	270	100
2	45-2216TK	435	415	430	450	315	400	344	420	100
3	45-2316TK	585	415	430	600	315	400	494	570	100
4	45-2416TK	735	415	430	750	315	400	644	720	100
5	45-2516TK	885	415	430	900	315	400	794	870	100
6	45-2616TK	1035	415	430	1050	315	400	944	1020	100

MODULAR ENCLOSURES 16 MODULE WITH TRANSPARENT DOOR, KEY LOCK, EARTH & NEUTRAL										
Rows	Order Reference	A	B	C	D	E	F	G	H	J
1	45-2116TKNE	285	415	430	300	315	400	194	270	100
2	45-2216TKNE	435	415	430	450	315	400	344	420	100
3	45-2316TKNE	585	415	430	600	315	400	494	570	100
4	45-2416TKNE	735	415	430	750	315	400	644	720	100
5	45-2516TKNE	885	415	430	900	315	400	794	870	100
6	45-2616TKNE	1035	415	430	1050	315	400	944	1020	100

MODULAR ENCLOSURES 24 MODULE WITH METAL DOOR & SLIDE LOCK										
Rows	Order Reference	A	B	C	D	E	F	G	H	J
1	45-3124ML	305	589	610	325	504	584	220	300	115
2	45-3224ML	455	589	610	475	504	584	370	450	115
3	45-3324ML	605	589	610	625	504	584	520	600	115
4	45-3424ML	755	589	610	775	504	584	670	750	115
5	45-3524ML	905	589	610	925	504	584	820	900	115
6	45-3624ML	1055	589	610	1075	504	584	970	1050	115

(For dimension refer figure 5)

MODULAR ENCLOSURE

Options

- Door with transparent sheet
- Door with cam type key-lock
- Models for holding 12 and 24 modules
- Model with 90mm depth
- Enclosures in other colours
- Neutral and earth terminals
- Polycarbonate support for neutral bar fixing
- Gland box

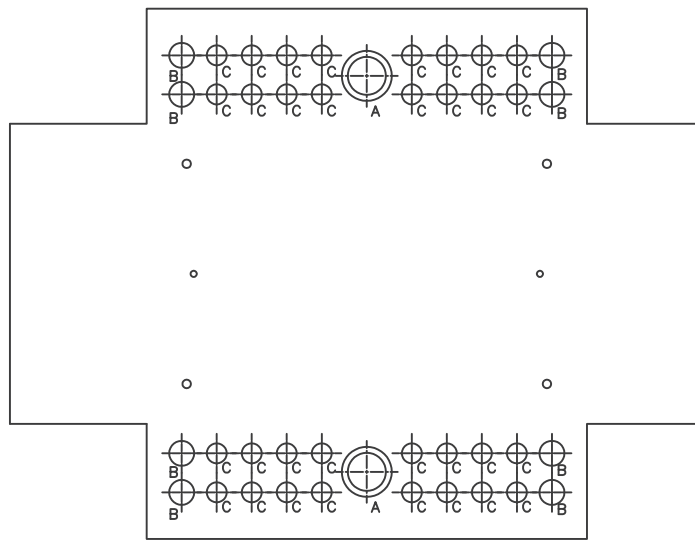
Above options available on request

GLAND BOX:

Gland box are useful to have additional space for cables from top or bottom of the enclosure

Order Reference	Dimension
45-GB16ME	16 module 440(w)X200(h)X115(d)
45-GB24ME	24 module 584(w)X200(h)X115(d)

Figure - 6



KNOCKOUT DETAILS:
 A - $\varnothing 38/\varnothing 50$ DOUBLE KNOCKOUT - 2NOS.
 B - $\varnothing 25$ KNOCKOUT - 8NOS.
 C - $\varnothing 20$ KNOCKOUT - 32NOS.

** Typical knockout details of 16 module (Details for other varieties will be provided on request)*

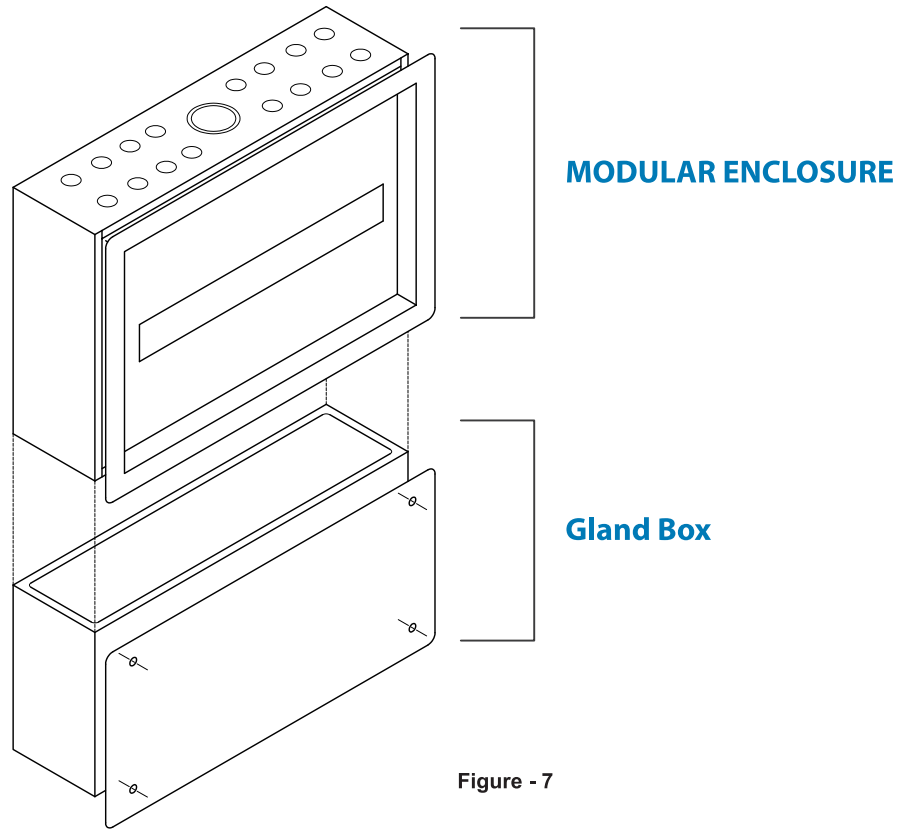


Figure - 7

Coding Key

CODE DETAIL FOR MODULAR ENCLOSURE

45	2	1	16	MLNE	S
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- S: SURFACE F: FLUSH
- M: METAL DOOR
T: TRANSPERANT DOOR
- N: NEUTRAL
E: EARTH
L: SLIDE LOCK
K: KEY LOCK
- NO OF MODULES
- NO OF ROWS
- TYPE NO: 1 - 440 width 115 depth for height (300,450,600,750,900,1050)
2 - 400 width 100 depth for height (270,420,570,720,870,1020)
3 - 584 width 115 depth for height (300,450,600,750,900,1050)
4 - 400 width 110 depth for height (270,420,570,720,870,1020)
5 - 350 width 115 depth for height (300,450,600,750,900,1050)
- CODE

This Height For (1row, 2row, 3row, 4row, 5row, 6row)

CERTIFICATIONS



alfanar Products Are Approved By:

- SEC
Saudi Electric Company
- SAUDI ARAMCO
Saudi Arabian Oil Company
- SABIC
Saudi Basic Industries Corporation
- Royal Commission for Jubail and Yanbu
- SASO
Saudi Arabian Standards Organization
- Several Ministries, Universities And Governmental Organizations In Saudi Arabia
- Abu Dhabi Water And Electricity Board
- Ministry Of Electricity, Bahrain
- State Electricity Board Of Qatar
- Public Electricity Corporation, Ministry Of Electricity, Yemen



QUALITY POLICY

The Quality Policy of **alfanar** is to:

- Provide products conforming to governing standards and of consistent quality
- Excel in all our operations to achieve customer's satisfaction for products and services through continual improvement
- Develop and maintain a motivated team of competent employees and vendors
- Redefine and execute new processes and systems that meet the changing market requirements.

OUR OBJECTIVE

We reach exacting standards in the safety and distribution of power and go well beyond a customer's expectations. This is done by focusing our technology and expertise on the ultimate reward we can get, complete satisfaction of our customers.

alfanar PRODUCTS

- Switch and Socket Boxes
- Junction Boxes
- **Metal Enclosures IP65**
- **Stainless Steel Enclosures NEMA-4x**
- Telephone Enclosures
- **Circuit Breaker Enclosures**
- **Busbar Chamber With Multiple Outlets**
- **Modular Enclosures**
- **Load Centers**
 - NEMA Type LA Load Centers
 - IEC Type LD Load Centers
 - Split Busbar Units Type LAS/ LDS Load Centers
 - **Raysan** Load Centers
 - **ALF** Load Centers
- **MCCB Distribution Boards**
- **Pump Control Panels**
- **Motor Control Centers**
- **LV Switchboards up to 6300A, Tested For 100KA - 1 sec Short Circuit Withstand**
- **Package Substations**
- **Control and Automation Panels**
- **Relay and Control Panels**
- **Medium Voltage Switchgears**
- **Pole Mounted Metering Structures**
- **AC/DC Panels up to 5000A , Tested For 85KA - 1 sec Short Circuit Withstand**
- **Extendable and Non-Extendable Ring Main Units**



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