



# CIRCUIT BREAKER ENCLOSURES

# BUSBAR CHAMBERS



CE



ISO 9001:2008  
Certificate No: 44039

# Circuit Breaker Enclosures

## ● APPLICATION

**alfanar** Circuit Breaker Enclosure is designed to be a safe and reliable switching device for use in residential, commercial and industrial premises. It protects a circuit under overload or short circuit conditions.

# reliability

reliable / adj.:

1. that may be relied on
2. of consistently good character or quality
3. dependable

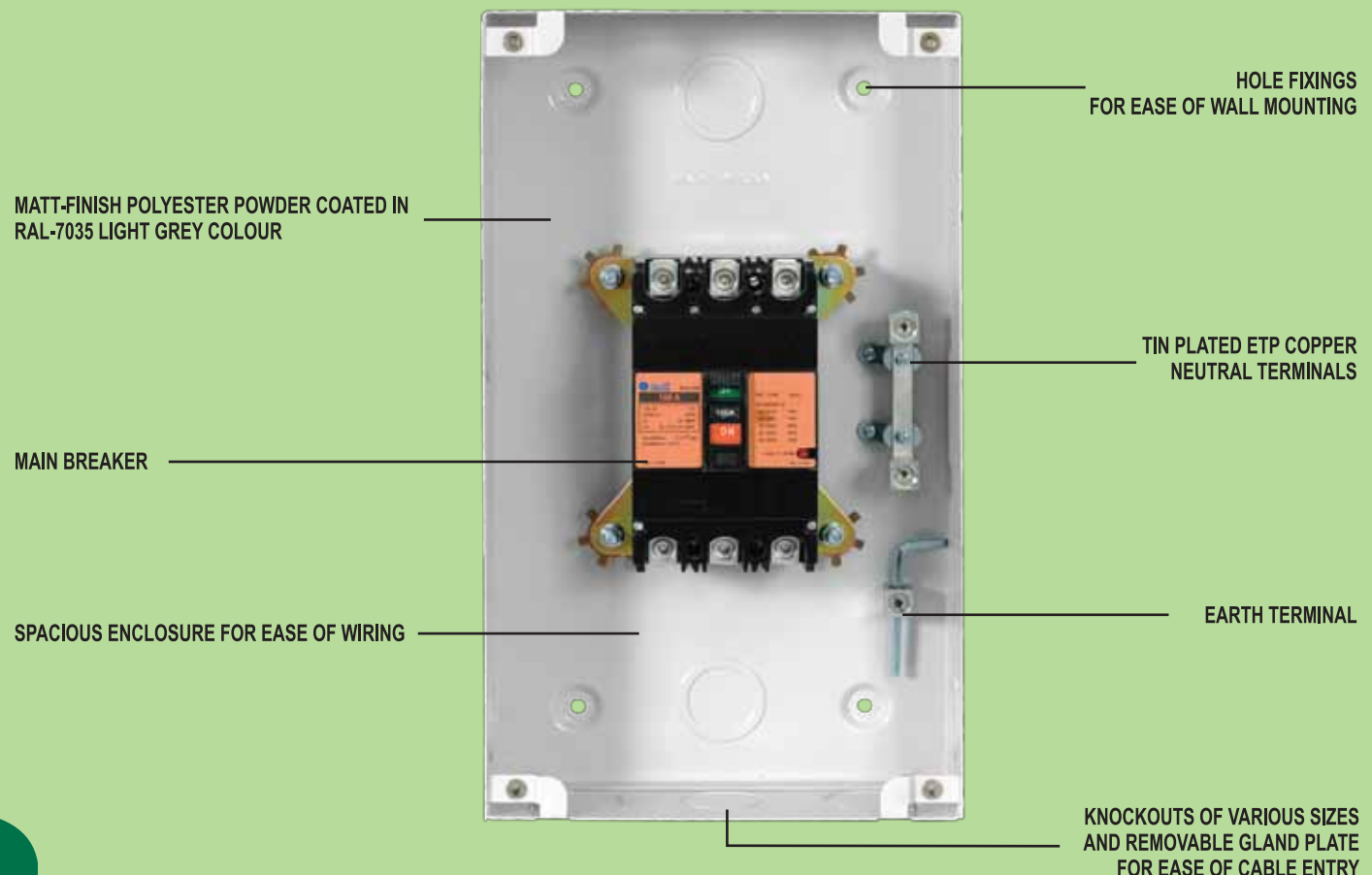


Figure 1

# Circuit Breaker Enclosures

## ● FEATURES

- Made of high quality electro-galvanized steel sheet
- Available for indoor and outdoor applications
- Matt-finish polyester powder coated in RAL-7035 light grey colour (other colours available on request)
- Mounting bracket made of electroplated steel sheet
- Knockouts for cable entry are provided on all sides of indoor enclosures and only at the bottom side of outdoor enclosures
- Padlocking facility
- Provided with neutral and earth terminals
- CNC Machine formed gasket for outdoor enclosures to ensure better sealing
- Spacious enclosure for ease of wiring



Figure 2

## ● SPECIFICATIONS

Rated Voltage	: 415/240/120V AC
Rated Insulation Voltage	: 600V AC
Frequency	: 50/60 Hz
Ambient Temperature	: 50 °C
Standard	: IEC & NEMA
Degree of protection	: IP40/NEMA-1 & IP54/NEMA-3R



Figure 3

# quality

quality/ n.:

1. the degree of excellence of a thing (of good quality)
2. general excellence (their work has quality)
3. (attrib.) of high quality (a quality product)

# Circuit Breaker Enclosures

## PRODUCT VARIETIES AND DIMENSIONS

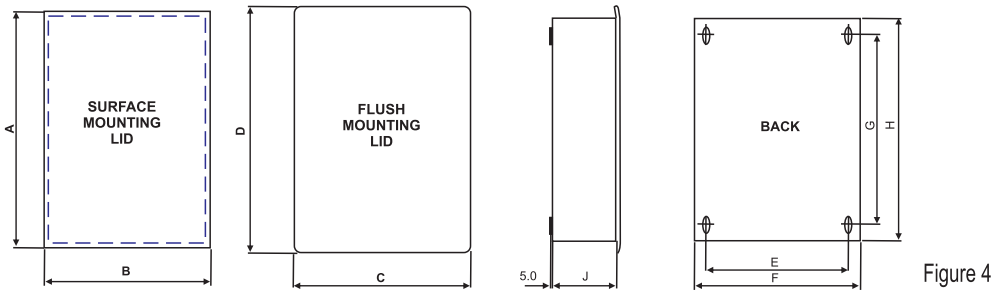


Figure 4



Figure 5

### INDOOR CIRCUIT BREAKER ENCLOSURES FLUSH TYPE

DESCRIPTION	RATING	MAIN TYPE	C	D	E	F	G	H	J	CAT. NO.
MCB Enclosure	30-100A	MCB	215	375	125	198	270	354	83	33-43100
MCCB Enclosure	30-100A	MCCB	246	418	145	230	321	400	85	32-L43100
MCCB Enclosure	125-225A	MCCB	304	434	210	280	330	410	127	32-L43225
MCCB Enclosure	250A	MCCB	305	575	205	280	470	550	126	32-43250
MCCB Enclosure	300-400A	MCCB	375	625	270	350	520	600	170	32-43400

Change last three digits for required ratings

For example:

33-43100 Represents indoor enclosure with 100A MCB main Flush type.

32-L43100 Represents indoor enclosure with 100A MCCB main Flush type.

32-L43225 Represents indoor enclosure with 225A MCCB main Flush type.

### INDOOR CIRCUIT BREAKER ENCLOSURES SURFACE TYPE

DESCRIPTION	RATING	MAIN TYPE	A	B	E	F	G	H	J	CAT. NO.
MCB Enclosure	30-100A	MCB	360	203	125	198	270	354	83	33-13100
MCCB Enclosure	30-100A	MCCB	406	235	145	230	321	400	85	32-L13100
MCCB Enclosure	125-225A	MCCB	416	286	210	280	330	410	127	32-L13225
MCCB Enclosure	250A	MCCB	556	286	205	280	470	550	126	32-13250
MCCB Enclosure	300-400A	MCCB	606	356	270	350	520	600	170	32-13400

Change last three digits for required ratings

For example:

33-13100 Represents indoor enclosure with 100A MCB main Surface type.

32-L13100 Represents indoor enclosure with 100A MCCB main Surface type.

32-L13225 Represents indoor enclosure with 225A MCCB main Surface type.

### OUTDOOR CIRCUIT BREAKER ENCLOSURES

DESCRIPTION	RATING	MAIN TYPE	A	B	E	F	G	H	J	CAT. NO.
MCB Enclosure	30-100A	MCB	360	205	125	200	270	355	100	33-23100
MCCB Enclosure	30-100A	MCCB	360	205	125	200	270	355	100	32-L23100
MCCB Enclosure	125-225A	MCCB	416	286	210	280	330	410	128	32-L23225
MCCB Enclosure	250A	MCCB	606	296	220	290	520	600	140	32-23250
MCCB Enclosure	300-400A	MCCB	656	356	280	350	570	650	170	32-23400

Change last three digits for required ratings

For example:

33-23100 Represents Outdoor enclosure with 100A MCB main.

32-L23100 Represents Outdoor enclosure with 100A MCCB main.

32-L23225 Represents Outdoor enclosure with 225A MCCB main.



Figure 6



Figure 7

## TESTING

Each of our products undergo strict quality control check and is routinely checked for:

- Dielectric Test** : A high voltage routine test  
**Electrical Continuity Test** : To confirm correct assembly and operation  
**Insulation Resistance Test** : To ensure high insulation resistance

# Busbar Chambers

## ● APPLICATION

alfanar Busbar Chamber is designed for safe and reliable distribution of electrical power. It facilitates ease and flexibility in connecting cables, allowing up to four outgoing connections.

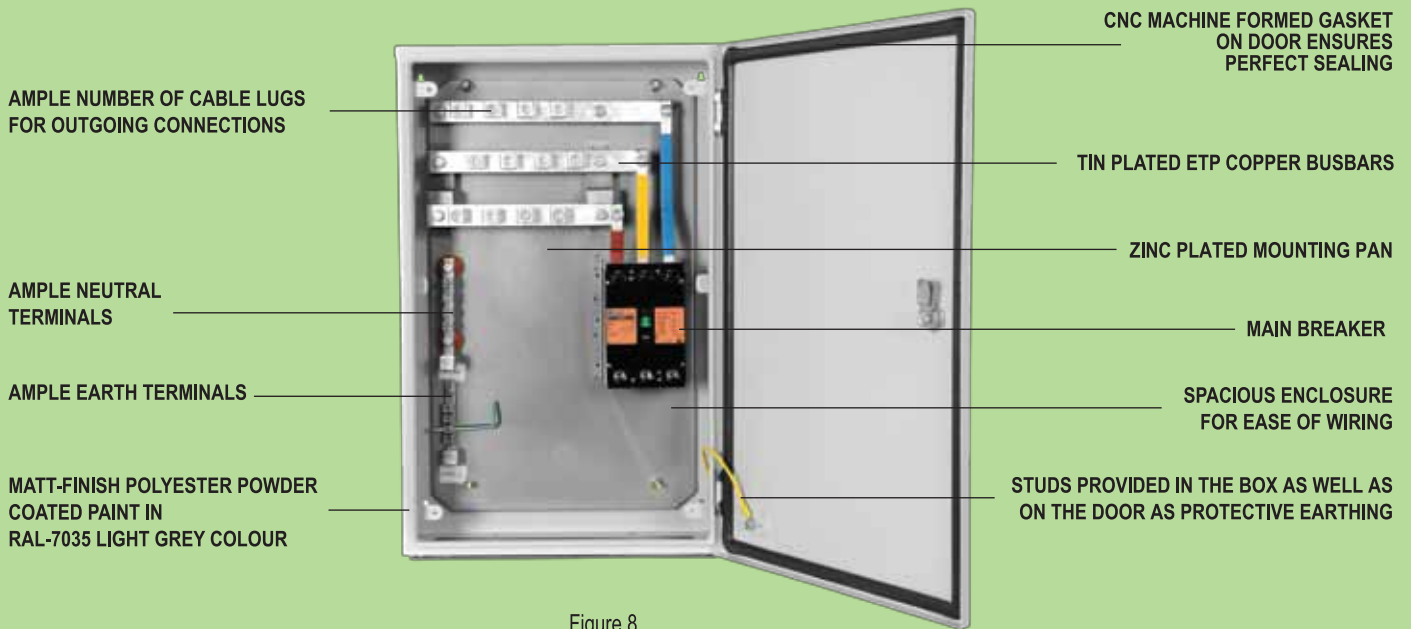


Figure 8

## ● FEATURES

- Made of high quality Electro-galvanized steel sheet
- Matt- finish polyester powder coated in RAL-7035 light grey colour (other colours available on request)
- CNC Machine formed polyurethane door gasket ensures better sealing
- CNC Corner formed door with smooth finish
- Earthing studs are provided on both the enclosure and the door
- Provided with neutral and earth terminals
- Safety dead front cover is provided to avoid accidental contact with live part (busbar chamber only)
- Tin plated ETP Copper Busbar with  $1.5A/mm^2$  current density (busbar chamber only)
- Provided with brass terminal (shrouded busbar chamber only)
- Flame retardant polycarbonate shroud material (shrouded busbar chamber only)



Shrouded Busbar Chamber

Figure 9

### Shrouded busbar chamber (Technical Data)

SL.NO.	DESCRIPTION	100A	225A
1	No of outgoing per each phase & neutral	4nos	4nos
2	Outgoing terminal size	$25mm^2$	$50mm^2$
3	Incoming terminal size	$50mm^2$	$120mm^2$

# Busbar Chambers

## SPECIFICATIONS

Rated Voltage	: 415/240/120V AC
Rated Insulation Voltage	: 600V AC
Frequency	: 50/60 Hz
Ambient Temperature	: 50 °C
Standard	: IEC & NEMA
Degree of protection	: IP54/NEMA-3R



## PRODUCT VARIETIES AND DIMENSIONS

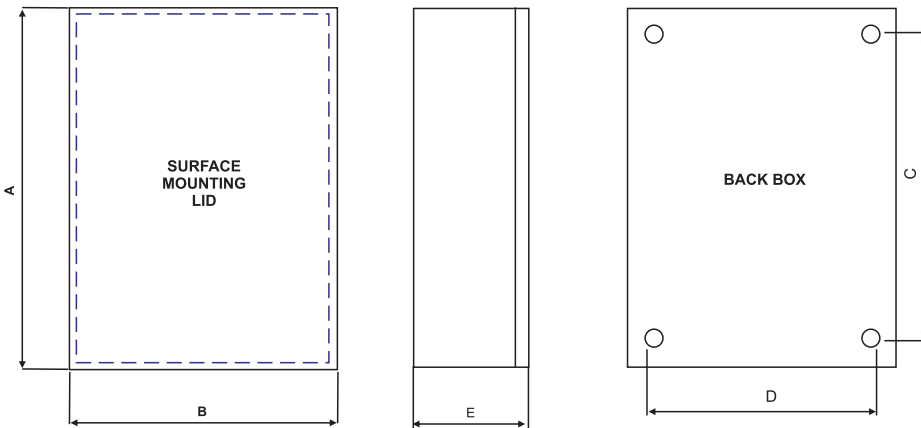


Figure 10

### OUTDOOR BUSBAR CHAMBER

DESCRIPTION	RATING	MAIN TYPE	A	B	C	D	E	CAT. NO.
Busbar Chamber	30-100A	3P MCCB 100AF	555	355	484	304	175	32-L33100
Busbar Chamber*	100A	LUGS ONLY	400	500	351	451	150	35-33100
Busbar Chamber	125-225A	3P MCCB 225AF	665	425	595	388	165	32-L33225
Busbar Chamber*	225A	LUGS ONLY	500	600	451	551	200	35-33225
Busbar Chamber	250A	3P MCCB 250A	745	425	675	385	190	32-33250
Busbar Chamber	300-400A	3P MCCB 400AF	915	515	855	465	185	32-33400
Busbar Chamber	500-600A	3P MCCB 600AF	1000	600	951	551	250	32-33600

**\* Shrouded busbar chamber**

Change last three digits for required ratings

**For example**

32-L33100 Represents outdoor busbar chamber with 100A MCCB main

32-33400 Represents outdoor busbar chamber with 400A MCCB main

35-33225 Represents outdoor shrouded busbar chamber 225A

## TESTING

Each of our products undergo strict quality control check and is routinely checked for:

- Dielectric Test : A high voltage routine test
- Electrical Continuity Test : To confirm correct assembly and operation
- Insulation Resistance Test : To ensure high insulation resistance





## CERTIFICATION

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, Qatar
- Public Electricity Corporation- Ministry Of Electricity, Yemen

## 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.

## 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 customers' satisfaction for products and services through continual improvement
- Develop and maintain a motivated team of competent employees and vendors
- Redefine and execute new processes/systems that meet market requirements.

## 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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As improvement of alfanar products is an ongoing process, technical specifications and other details shown in this brochure may change from time to time