

**PRODUCES QUALITY** 

**NEW GENERATION** Safe, Reliable and High Quality



#### BAHRA **DISTRIBUTION BOARDS** CATALOG

LOAD CENTER, BREAKERS **CIRCUIT BREAKER ENCLOSURE BUSBAR CHAMBER** 



**DOWNLOAD E-CATALOGUE** 























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# SAFE RELIABLE HIGH QUALITY

BAHRA believes that the only way to sustain for a long time is to provide high quality products and services along with the highest level of customer satisfaction. BAHRA promises to continue enhancing quality and service.















#### DESIGN





# MODERN DESIGN OPTIMIZED SIZE ROBUST STRUCTURE QUICK INSTALLATION TIME

#### DESIGN PHILOSOPHY

Designers and manufacturers working in industries ranging from computers, mobile phones to automobiles constantly get benefit of advancement in technology. This helps them in creating products with better design, high performance, enhanced usability and more features. This is the philosophy of the development team at BAHRA.

# SAFETY, DURABILITY & PERFORMANCE

Designed by BAHRA, the Load Centers (LC) use the best selection of materials, cutting edge technology and class leading features to ensure safety, durability and performance.

The remarkable Load Center designs are a result of an extensive effort from a team of some of the best industrial designers in the industry. Advancement in technology has resulted in smaller size, better performance and improved design.

BAHRA Load Centers are used for safe and reliable distribution of electrical power for indoor application in residential and commercial buildings. BAHRA Load Centers are powered by the best selection of international proven quality of breakers by BAHRA to provide reliable circuit protection against overload and short circuit.

#### DESIGNED BY BAHRA

# FOR MODERN, ELEGANT AND IMPACTFUL AESTHETICS



# ATTRACTIVE FORM UNIQUE DOOR DESIGN HIDDEN SCREWS

BAHRA delivers unmatched quality and safety with great attention to user experience. These modern and optimized Load Centers come with an attractive form and a unique door design for a remarkable appearance.

BAHRA Load Center has been provided with many unique features those help in reducing human effort, leading to a stress free ownership experience. They allow for easy wire routing, identification and easy maintenance. The optimized size of the product makes transporting and handling easy and also prevents the need of a large pocket in the wall for placing the product. A dedicated and innovative cable management system allows for easy routing and maintenance of Wires, and helps in reducing clutter and provides a visually neat interface.

SPECIAL COLOR AVAILABLE ON REQUEST

For more details please contact customer service at 800 124 8111

### **DESIGN FEATURES**



# MODERN LOOK, HIDDEN HINGES AND SCREWS

The door along with the curved edges and compact proportions enhance the aesthetics of the Load Center and provide an elegant and modern look. The hidden hinges and screws used in the Load Center provide a visually neater look and interface. Thus imparting a modern and elegant look to the product and to stand out from the competition.



# INNOVATIVE DOOR CLOSING MECHANISM

The unique magnetic lock ensures a longer operating life in compared with classic spring loaded locks available in classic old generation of Load Centers. Use of plastic seals helps to amortize noise of door closing sound and reduces steel smacking.



#### **ROBUST STRUCTURE**

BAHRA Load Centers use high quality engineering plastic to achieve a robust pan assembly. This plastic material has a unique interlocking snap feature to let all components behave like a single piece construction.

### PERFORMANCE FEATURES



## **NEXT GENERATION BUSBAR DESIGN**

The use of single piece ETP (electrolytic tough pitch) electro tin plated copper of purity more than 99.9% results in high conductivity and less heat generation. This unique new generation design, based on less current density results in a low temperature operating environment which in turn makes the operating life of the Load Centers longer than classic Load Centers available in the market. This is the reason that BAHRA is proud to offer the 25 year warranty.



#### **TEMPERATURE MANAGEMENT**

Proper design of the current carrying parts along with proper selection of the breaker & better engineering behind the Load Centers have led to excellent levels of temperature management. The main factors which help in temperature management are the busbar design and material (ETP with 99.9% purity of copper) and low density of current apart from the well studied connection points to reduce heat generation.





# DESIGNED TO SUIT IEC 61439-163

BAHRA Load Centers are designed as per the latest IEC 61439-163 standards and are tested as per this standard in highly reputed international labs. This confirms that BAHRA Load Centers meet the highest and latest worldwide standards.







## **SAFETY FEATURES**



#### **BAHRA TECHNOLOGY**

BAHRA Load Centers are provided with Bahra circuit breakers with high protection specification. Bahra technology has been tried and tested in the international market.



# ENHANCED EARTHING FEATURE

This feature allows for easy access for cable entry as it is elevated from the bottom of the box wrapper.



# LOAD CENTER SPECIFICATIONS

#### **GENERAL SPECIFICATIONS**

Product has been tested according to the standard IEC61439-163 in several international labs.

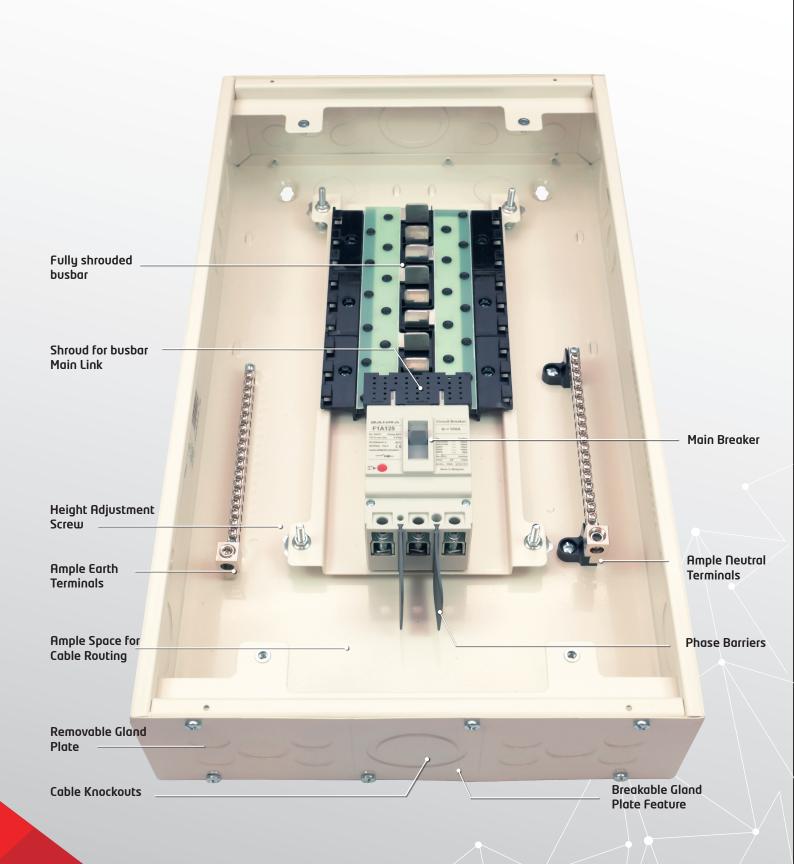
ITEM	DESCRIPTION	
Standard	IEC61439-1 <del>6</del> 3	
Busbar Rating (AFW)	100, 250	
No of Phase	3	
Voltage Rating (V)-AC (50/60 Hz)	110-415	
Mounting Type	Flush	
No. of Ways (3 Phase)	6, 9, 12, 18, 24, 30, 36, 42, 48	
Ingress Protection (IP)	IP 40	
Steel sheet Thickness (mm)	1 & 1.5mm	
Knockout Sizes	Refer to table (2)	
Surface finishing	Powder coated with electrostatic Epoxy p	olyester (RAL9001)
Coating Thickness	70-90 microns	
Main Incoming Breaker	MCCB	
Breaker Terminal Capacity (mm²)	BAHRA MCCB 100A → 50 (BT)	
	BAHRA MCCB 250A → 120 (CL)	
Branch Breakers	1,2 and 3 pole plug in type	
<b>Neutral Terminal Capacity</b> (mm²)	Incoming cable lug	<b>→</b> 95
	Outgoing terminals (Bidirectional)	<b>→</b> 25
Earth Terminal Capacity (mm²)	Incoming cable lug	<b>→</b> 50
	Outgoing terminals (Bidirectional)	<b>→</b> 25
Rated Insulation voltage (V)-Ui	690	
Ambient Temperature (°C)	50	

For ampere trip ratings for breaker; refer to table (8 and 9).

Table (1)

## THE BEST SELECTION

# OF MATERIALS AND MODERN TECHNOLOGY



### **BOX WRAPPER SPECIFICATIONS**

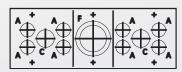
#### THE BOX WRAPPER WITH KNOCKOUT FEATURES

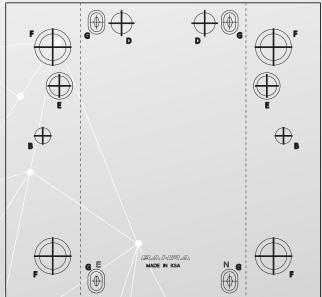
The below table indicates the features along with the dimensions.

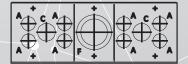
КПОСКОИТ	КПОСКОИТ ТҮРЕ	DIAMETER (mm)
A	Single	Inside 25
В	Single	Inside 27
С	Single	Inside 32
D	Single	Inside 38
E	Double	Inside 38, outside 46
F	Double	Inside 50, outside 63

A - F : represent the knockout features
G : represents the 4 key holes

#### Table (2)

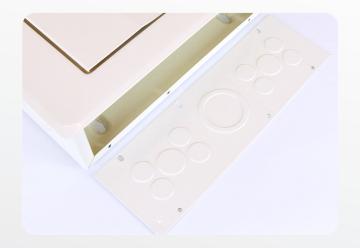






The Load Center is provided with ample easy to remove knockout features in the box wrapper and gland plate. That helps in easy installation of cables and reducing clutter. The left side drawing shows the box wrapper with the knockout features.

## **EASE OF INSTALLATION FEATURES**



## GLAND PLATE AND KNOCKOUT FEATURES

Sufficient knockout features in box wrapper and gland plate ensure easy routing of cables. Easy to remove knockouts and gland plate with easily breakable features reduce installation time.



#### **CEMENT GUARD**

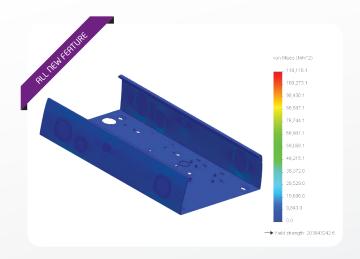
A feature is provided to prevent cement from entering inside the Load Center during installation as cement is tough to clean once it enters and dries up inside.



# UNIQUE HEIGHT ADJUSTMENT FEATURE

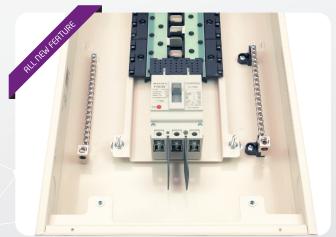
Pan assembly height adjustment screws helps in accurate and fast alignment in Load Center with the wall. For more details please refer to the installation manual provided with the product.

### EASE OF INSTALLATION FEATURES



# NON TWISTING, NON CRUSHING FEATURES

Unique box wrapper profile developed using latest technologies and simulation software ensures the strongest resistance to high crushing forces. This profile helps in preventing the twisting of the box wrapper during cement packing.



#### **AMPLE CABLING SPACE**

Cable entry area is 40% more among the most popular brands in the market . This vast space makes the incoming cable connection to the main breaker much easier and faster.



#### BAHRA

### *NEXT GENERATION BREAKER*



As a fruit of several years of development done in BAHRA In Saudi Arabia to bring a new generation of Bahra branch breaker according to the IEC60898-1. We are very proud to offer the new generation series of Bahra MCB range with innovative features.



# THERMAL STRESS MANAGEMENT

Special design of housing and cover, to reduce thermal stress between the breakers, and enhance the air circulation. Superior quality plastic material to withstand high thermal and mechanical stress, and also provide high electrical insulation and fire retardant properties.

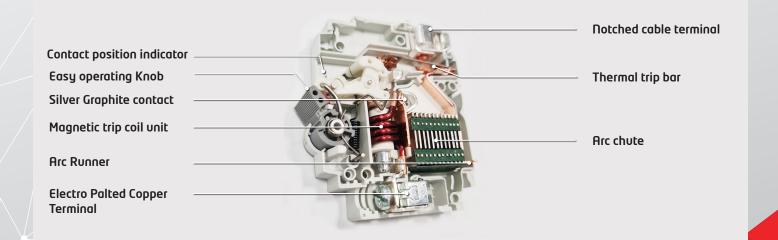
#### BAHRA IEC PLUG IN MCB

# FOR SAFE AND RELIABLE CIRCUIT POTECTION



#### **GENERAL FEATURES**

- Easy to operate the breaker knob .
- Finger Protection IP20 .
- Contact position indicator red and green to indicate the contact/ circuit is close or open condition.
- Positive contact indication through trip free mechanism.
- Higher magnetic coil diameter to reduce overall breaker circuit resistance.



## RANGE

#### **BAHRA MCCB 100AF PLUG-IN TYPE**

Main breaker available range is: 16-20-25-32-40-50-63-80-100 A



100AF MCCB 18W

NO. OF WAYS –		BOX Dim.		DFC D	DFC Dim.	
110. OF WHIS -	Н	W	D	В	C	A
6 W	465	340	109	364	490	120
9 W	465	340	109	364	490	217
12 W	537	340	109	364	566	151
18 W	613	340	109	364	642	151
24 W	689	340	109	364	718	151
30 W	765	340	109	364	794	151
36 W	841	340	109	364	870	151
42 W	917	340	109	364	946	151

Table (3)

#### **BAHRA MCCB 250AF PLUG-IN TYPE**

Main breaker available range is: 125-160-200-250 A



**250AF MCCB 18W** 

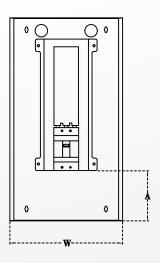
NO. OF WAYS –		BOX Dim.		DFC Dim. MCFI		MCFD* Dim.
110. OF WHIS	H		D	В	С	A
12 W	613	340	109	364	642	194
18 W	689	340	109	364	718	194
24 W	765	340	109	364	794	194
30 W	841	340	109	364	870	194
36 W	917	340	109	364	946	194
42 W	993	340	109	364	1022	194
48 W	993	340	109	364	1022	118

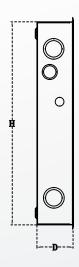
Table (4)

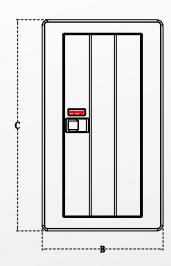
#### A RANGE OF 3 PHASE LOAD CENTERS

# FOR INDOOR APPLICATION IN RESIDENTIAL AND COMMERCIAL BUILDINGS

#### Load Center - Bahra







- All Dimension are in (mm).
- \* MCFD (A): Main Cable Freedom Dimension which is the distance between bottom of main breaker and bottom gland plate.

Reference drawings for tables (3), (4).



















## BREAKER

## **SPECIFICATIONS**

#### MINIATURE CIRCUIT BREAKERS (MCB)

ITEM			DESCRIPTION		
Frame size			63		
No. of Poles	3		1, 2, 3		
Calibrated/suitable temperature (°C)			50		
Standard			IEC/EN 60898-1		
Rated oper	ating voltage (V)-Ue		240/415V AC		
Rated Insul	ation voltage (V)-Ui		440 V		
Rated impu	lse withstand voltage Uimp		4 kV (1.2/50) μsec		
Rated curre	nt (A)		06, 10, 16, 20, 25, 32, 40, 50, 63		
Rated frequ	ency (Hz)		50/60		
Short circuit	breaking capacity Icu (kA)		10 kA - as per IEC/EN 60898-1		
Type of trip	unit (Thermal magnetic rele	ase)	Yes		
Trip Charact	eristic		C		
Selectivity	class		3		
Short circuit	trip response		5 - 10 In		
Conventional non-tripping current			Int = 1.13 In		
Convention	al tripping current		lt = 1.45ln		
Max.back-u	p fuse (gL/Gg)		125A		
Endurance	Numbers of mechanical ope	ration	>10,000 (IEC/EN 60898-1)		
	Numbers of electrical opera	tion	>4,000 (IEC/EN 60898-1)		
Terminal ca	pacity		25 mm² / 4 AWG		
Degree of p	rotection (DIN VDE 0470)				
	Surface mounted		IP20		
Built-in behind panel			IP40		
Contact pos	ition indicator		red / green		
Breaker Din	nension W x H x D (mm)	1 Pole	25.3 x 80 x 65		
		2 Pole	50.6 x 80 x 65		
			75.9 x 80 x 65		

Table (5)

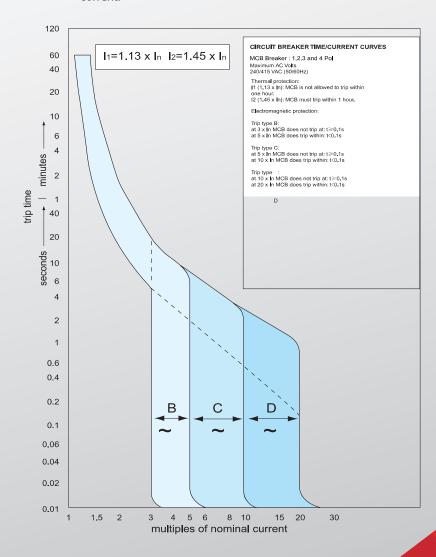
#### PLUG IN MCB

# FOR SAFE AND RELIABLE CIRCUIT POTECTION



# TRIPPING CHARACTERISTIC & MAXIMUM LET-THROUGH CURRENT FOR BREAKERS

A tripping characteristic is used to understand the breaker response time with respect to the current that is flowing through the breaker. It indicates the time required for the breaker to trip due to overload and short circuit along with the corresponding current.



# MCCB BREAKER SPECIFICATIONS

#### MOLDED CASE CIRCUIT BREAKERS (MCCB) BAHRA SERIES

ITEM		DESCRIPTION	DESCRIPTION	
Breaker famil	У	100AF-18KA	100AF-25KA	250AF-25KA
Frame size		100	100	250
No. of poles		3	3	3
Calibrated/su	itable temperature (°C)	55	55	55
Standard		IEC/EN60947-2	IEC/EN60947-2	IEC/EN60947-2
Rated operat	ing voltage (V)-Ue (50/60 Hz)	400/415	400/415	400/415
Rated Insulat	ion voltage (V)-Ui (50/60 Hz)	800	800	800
Rated impuls	e withstand voltage (kV)- Uimp	8	8	8
Rated current	: (A)	16, 20, 25, 32, 40,	16, 20, 25, 32, 40,	125, 160, 200, 250
		50, 63, 80, 100	50, 63, 80, 100	
Short circuit b	reaking capacity Icu (kA)	18	25	25
	reaking capacity Icu (kA) ing capacity Ics = % Icu	18 100%	25 100%	25 100%
	ing capacity lcs = % lcv			
Service break	ing capacity lcs = % lcv	100%	100%	100%
Service break	ing capacity lcs = % lcu	100% A	100% A	100% A
Service break Category of u Endurance	ing capacity Ics = % Icu se Mechanical	100% A >10,000	100% A >10,000	100% A >8,000
Service break Category of u Endurance	ing capacity Ics = % Icu se  Mechanical Electrical nit (Thermal magnetic release)	100% A >10,000 1500	100% A >10,000 1500	100% A >8,000 1000
Service break Category of u Endurance Type of trip u	ing capacity Ics = % Icu  se  Mechanical  Electrical  nit (Thermal magnetic release)  acity (mm²)	100%  A >10,000  1500  Yes	100% A >10,000 1500 Yes	100% A >8,000 1000 Yes
Service break Category of v Endurance Type of trip v Terminal capa Thermal-mag	ing capacity Ics = % Icu  se  Mechanical  Electrical  nit (Thermal magnetic release)  acity (mm²)	100%  R >10,000  1500  Yes 50 (BT)	100% A >10,000 1500 Yes 50 (BT)	100% A >8,000 1000 Yes 120 (CL)

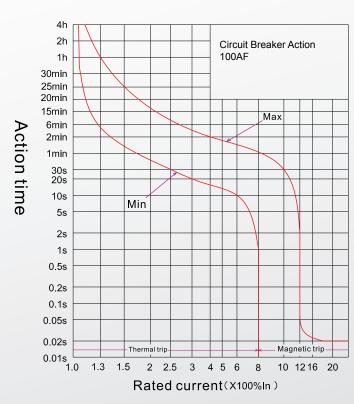
Table (6)

#### PREMIUM CIRCUIT BREAKERS

# FOR SAFE AND RELIABLE CIRCUIT PROTECTION

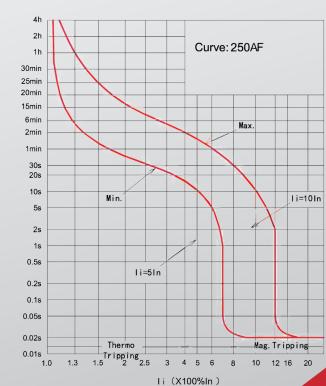
# TRIPPING CURVE FOR BAHRA MCCB 100AF BREAKERS

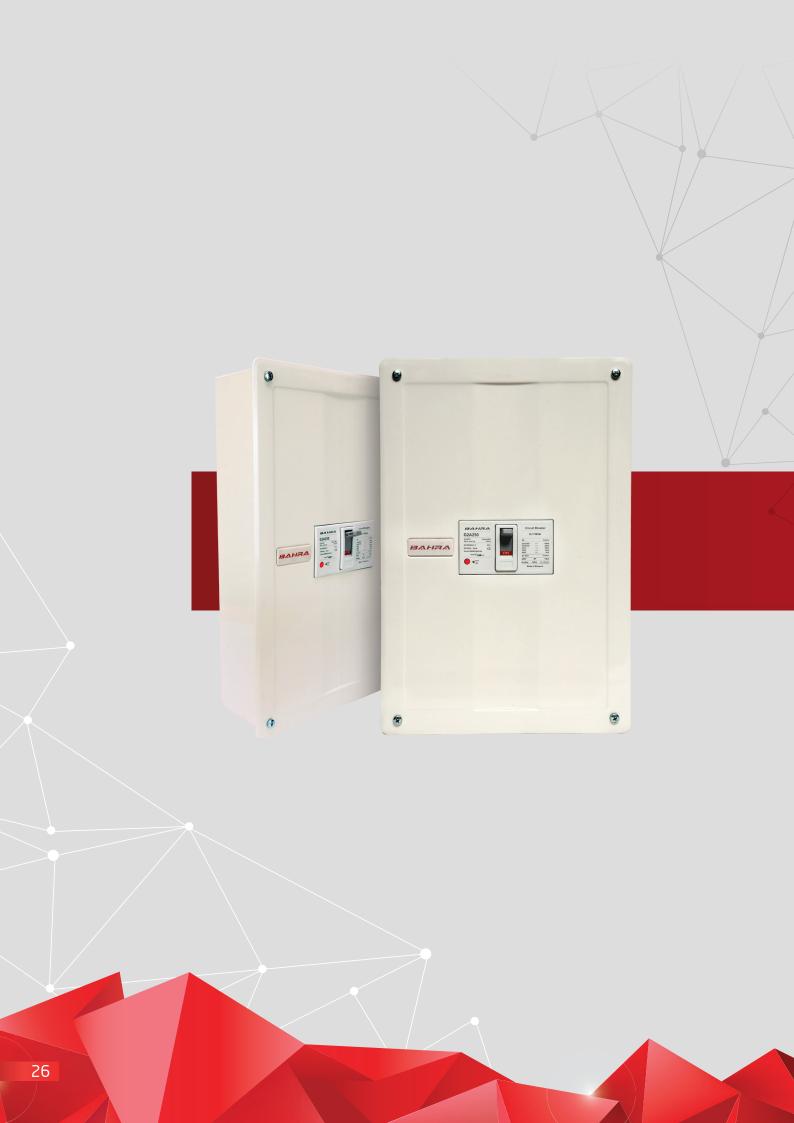




# TRIPPING CURVE FOR BAHRA MCCB 250AF BREAKERS











## **CIRCUIT BREAKERS ENCLOSURE**









#### INTRODUCING

# **NEXT GENERATION CIRCUIT BREAKERS ENCLOSURE**



#### SAFETY RELIABILITY PROTECTION

Use of BAHRA breakers of high specification with high interrupting capacity secures the highest safety standards. It also increases durability and helps the product withstand electrical shocks. The use of the Circuit Breaker Enclosure (CBE) provides your house with a double layer of protection.

BAHRA Circuit Breakers Enclosure are powered with the best selection of international proven quality of breakers by BAHRA to provide reliable circuit protection against overload and short circuits.

# CIRCUIT BREAKERS ENCLOSURE

## **FEATURES**



#### HIDDEN COVER FIXING SCREWS

Cover fixing screws in the surface type are hidden to enhance the look of the product. The screws can be fixed from 8 different locations. This feature helps optimizing the use of Product in limited space.



# GLAND PLATE AND KNOCKOUT FEATURES

Sufficient knockout features in box wrapper and gland plate ensure easy routing of cables. Easy to remove knockouts and gland plate with easily breakable features reduce installation time.

### UNIQUE DESIGN FEATURES

# FOR EASE OF USE AND ENHANCED USER EXPERIENCE



## FULLY SHROUDED NEUTRAL BAR

Fully shrouded busbar with fire retardant thermal sleeves and lugs are shrouded with high thermal resistance plastic more over the bottom surfaces additional are protected with high electrical insulation sheet for higher safety.



# **NEXT GENERATION NEUTRAL BAR DESIGN**

The neutral bar was designed to enable bidirectional entry of the cable (both sides of the breaker) facilitating the cable routing and making less stress on the cables.

Neutral incoming & outgoing cables can enter parallel in and parallel out in order to avoid more bending & cable overlapping.



#### **MOVABLE EARTH LUG**

The earth lug can be fixed in two different places depending on the entry direction of the earth cable.

# CIRCUIT BREAKERS ENCLOSURE SPECIFICATIONS

#### **GENERAL SPECIFICATIONS**

Product has been tested according to the standard IEC 61439-162 in several international labs

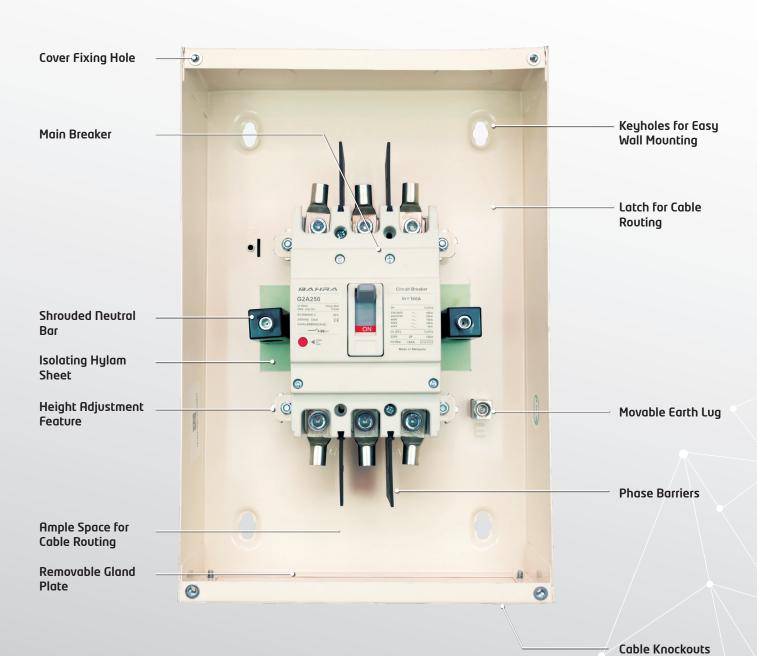
ITEM	DESCRIPTION
Standard	IEC 61439-162
Breaker Classifications	BAHRA G1A125 MCCB → 100 AF
	BAHRA G2A250 MCCB → 250 AF
Voltage Rating (V)-AC (50/60 Hz)	110-415
Mounting Type	Flush / Surface
Ingress Protection (IP)	IP 40
Steel Sheet Thickness (mm)	1
Surface finishing	Powder coated with electrostatic Epoxy polyester (RAL9001)
Coating Thickness	70 - 90 Microns
Breaker Terminal Capacity (mm²)	BAHRA G1A125 MCCB → 50 (BT)
	BAHRA G2A250 MCCB → 120 (CL)
<b>Neutral Terminal Capacity</b> (mm²)	Incoming ← outgoing cable lug CBE G1A125 MCCB → 50
	Incoming & outgoing cable lug CBE G2A250 MCCB → 95
Earth Terminal Capacity (mm²)	Incoming cable lug → 50
Rated Insulation voltage (V)-Ui	690
Ambient Temperature (°C)	50
Table (7)	

Table (7),

For ampere trip ratings for breaker; refer to table (5), (6).

## THE BEST SELECTION

# OF MATERIALS AND MODERN TECHNOLOGY



## Circuit Breakers Enclosure

## RANGE

#### **BAHRA MCCB 100AF**

Main breaker available range is: 16-20-25-32-40-50-63-80-100 A



Mounting Type	BOX Dim.			COVER Dim.	
Prooficing Type	Н	W	D	A	
Surface	389	224	91	394	229
Flush	389	224	91	408	243

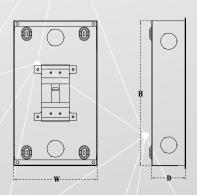
Table (8)

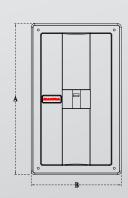
#### **BAHRA MCCB 250AF**

Main breaker available range is: 125-160-200-250 A

Mounting Tune	BOX Dim.			COVER Dim.		
Mounting Type	Н	W	D	A	В	
Surface	389	259	91	394	264	
Flush	389	259	91	408	278	

Table (9)





• All Dimension are in (mm).

Reference drawings for tables (8), (9).

















# CIRCUIT BREAKERS ENCLOSURE WEATHERPROOF

## **SPECIFICATIONS**

#### CIRCUIT BREAKER ENCLOSURE - IP65 (CBE -Weatherproof) - BAHRA

ITEM	DESCRIPTION
Technical	
Standard	IEC 61439-1 & 2
Rated Current (MCCB)	
G1A125	16, 20, 25, 32, 40, 50, 63, 80, 100, 125
G2A250	125, 160, 200, 250
Voltage Rating (V)- AC (50/60Hz)	110-415
Breaker Terminal Capacity (mm2)	
G1A125	G1A125 ->> 50
G2A250	G2A250 - >> 95/120
NeutralTerminal Capacity(mm2)	
G1A125	50
G2R250	95



Table (10)

# CIRCUIT BREAKERS ENCLOSURE WEATHERPROOF

# **SPECIFICATIONS**

## CIRCUIT BREAKER ENCLOSURE - IP65 (CBE -Weatherproof) - BAHRA

ITEM	DESCRIPTION
Earth Terminal Capacity (mm2)	50
Rated Insulation voltage (V)-Ui	690
Ambient Temperature (°C)	50
General	
Application	Indoor/ outdoor
Degree Of Protection	IP65
Finish	Polyester Powder Coated
Color	RAL 9001/7032/ 7035/ As per customer requiremen
Enclosure Material	1.0mm Thick Steel Sheet
Door Gasket	Polyurethane gasket provided to ensure IP65 ratings
Door Lock	Quarter Turn Lock provided to ensure IP65 Ratings
Mounting PAN Material	1.0mm Thick GI Sheet





Table (11)







# **BUSBAR CHAMBER**









## INTRODUCING

# **NEXT GENERATION BUSBAR CHAMBER**



### **Robust Design**

Durable Construction: Made from high-quality materials that withstand harsh environmental conditions, ensuring longevity and reliability.

Compact Footprint: Space-efficient design that maximizes installation flexibility without compromising performance.

## **Enhanced Safety**

Insulation and Protection: Equipped with advanced insulating materials to prevent electrical hazards and ensure safe operation.

Integrated Earthing System: Designed with built-in earthing features to enhance safety and compliance with international standards.

# INTRODUCING **NEXT GENERATION BUSBAR CHAMBER**

### **High Current Capacity**

Scalable Solutions: Can handle high current loads, making them suitable for industrial and commercial applications.

Efficient Power Distribution: Optimized for minimal power loss, ensuring effective energy management and distribution.

#### Easy Installation and Maintenance

User-Friendly Design: Simplified installation process with clear instructions, reducing downtime and labor costs.

Accessible Maintenance Points: Designed for easy access to components for routine inspections and maintenance, promoting operational efficiency.

## **Versatile Applications**

Multi-Industry Use: Ideal for power generation, manufacturing, data centers, and commercial buildings, providing versatile solutions for various sectors.

### **Aesthetic Appeal**

Modern Design: Sleek and professional appearance that complements contemporary environments.

#### **Environmentally Friendly**

Sustainable Materials: Constructed with eco-friendly materials, contributing to sustainability goals and reducing environmental impact.

Energy Efficiency: Designed to optimize energy use, supporting green initiatives and reducing operational costs.

# BUSBAR CHAMBER

# **SPECIFICATIONS**

## **BUSBAR CHAMBER (BBC) - BAHRA**

ITEM	DESCRIPTION
Technical	
Standard	IEC 61439-1 & 2
Rated Current (MCCB)	100A, 160A, 200A, 250A, 320A, 400A
Voltage Rating	415V AC
Rated Frequency	50/60Hz
Numbers of Phases	3 Phase
Outgoing Terminal / Phase	50/60Hz
Busbar	Tin Plated ETP Copper
Short Cicuit Capacity	
100A	18kA
160A/200A/250A	25kA
320A/400A	36kA



ITEM CODE	DESCRIPTION

BBCF\*\*\*ACu Bus Bar Chamber Copper Bus Bar MCCB \*\*\*A

\*\*AMPERE RATING (100A, 160A, 200A, 250A, 320A, 400A)

# BUSBAR CHAMBER

# **SPECIFICATIONS**

## **BUSBAR CHAMBER (BBC) - BAHRA**

ITEM	DESCRIPTION
General	
Degree Of Protection	IP65
Color	RAL 7035 (Light Gray)
Enclosure Material	1.2-1.5mm Thick Steel Sheet
Door Gasket	Polyurethane gasket provided to ensure IP65 ratings
Door Lock	Quarter Turn Lock provided to ensure IP65 Ratings
Mounting PAN Material	1.5mm Thick GI Sheet
Overall Dimension W x H x D (mm)	
100A	555 x 355 x 175
160A-200A	665 x 425 x 165
250A	745 x 425 x 190
320A-400A	915 x 515 x 185



ITEM CODE	DESCRIPTION
TICII CODE	

BBCF\*\*\*ACu

Bus Bar Chamber Copper Bus Bar MCCB \*\*\*A

\*\*\*AMPERE RATING (100A, 160A, 200A, 250A, 320A, 400A)

# HOW TO ORDER THE PRODUCT

### **BAHRA CODING SYSTEM**

BAHRA **CBE** Catalog number is as follows

1	4 K X	YNGZZ	TTT-	MMM
1				MMM

DIGIT	DESCRIPTION	SELECTION		
14	Load Center plug in, IP 40,			
44	Circuit Breaker with Enclosure, IP40			
K	Mounting type	1: Flush	2: Surface	
X	Number of phases	1: One phase	2: Two phase	<b>3:</b> Three phase
Υ	Breaker type	C: MCB	F: MCCB	
n	Breaker entry terminal type	<b>B:</b> 100A	F: 250A	
G	Product generation	Alphabet entry (A, B, C	) which presentes prod	uct generation
		for latest generation c	all CSD	
ZZ	Number of ways of load center	06, 09, 12, 18, 24, 30,	36, 42, 48	
TTT	Ampere frame ( AF ) of the main breaker	<b>100:</b> MCCB 100AF	<b>250:</b> MCCB 250AF	
MMM	Ampere trip rating of main breaker (AT)	available rating for each	n breaker, refer to Breaker	Specipication Tables.

#### For example:

If you need BAHRA Load Center plugin flush mounting for the indoor usage with mian breaker BAHRA MCCB 100A, 18 ways, 100AF & 100A trip; the code will be 1413FBC18100-100.

If you need a CBE Flush mounted BAHRA MCCB 250A mainbreaker with Enclosure,160A ampere trip; the code will be 4413FFC250-160.

# BAHRA SERVICES



#### TOLL FREE SERVICE 800-124-8111

BAHRA has deployed a team of professional customer service center to serve all its customers to solve any problem they might face during the product life and to provide the technical support to buyers on the time of purchase.

Please contact our toll for any query **We care..** 



#### **WEB SERVICES**

BAHRA is a Consumer oriented Brand and always seeking to improve its services to its customers and make all data and information easily available to them.

Several web services were added to our website such as: distributor map details

www.bahra-electric.com



#### **EXPORT SERVICES**

For any export request; please contact us on:

through SMS, online inquiry.. For details please visit us @:

www.bahra-electric.com



#### **DISTRIBUTORS SERVICES**

For any distributors inside Saudi Arabia; visit us on:

For distributors in other countries; contact us on:

www.bahra-electric.com

#### ITEMS LIST WITH PRODUCT PACKING

LC BAHRA MAIN MCB 32A - 100A				
Item Code	Item Description	No of Ways	Carton / Pcs	Pallet / Pcs
BLC.LFPDB-306XXX	LC 3PH BAHRA F MCB MAIN 6 WAY G3 XXXA	6	1	24
BLC.LFPDB-309XXX	LC 3PH BAHRA F MCB MAIN 9 WAY G3 XXXA	9	1	24
BLC.LFPDB-312XXX	LC 3PH BAHRA F MCB MAIN 12 WAY G3 XXXA	12	1	24
BLC.LFPDB-318XXX	LC 3PH BAHRA F MCB MAIN 18 WAY G3 XXXA	18	1	18
BLC.LFPDB-324XXX	LC 3PH BAHRA F MCB MAIN 24 WAY G3 XXXA	24	1	18
BLC.LFPDB-330XXX	LC 3PH BAHRA F MCB MAIN 30 WAY G3 XXXA	30	1	18
BLC.LFPDB-336XXX	LC 3PH BAHRA F MCB MAIN 36 WAY G3 XXXA	36	1	12
BLC.LFPDB-342XXX	LC 3PH BAHRA F MCB MAIN 42 WAY G3 XXXA	42	1	12
BLC.LFPDB-348XXX	LC 3PH BAHRA F MCB MAIN 48 WAY G3 XXXA	48	1	12
	LC BAHRA MAIN MCCB 32A - 100A			
BLC.1413FBC12100-XXX	LC 3PH BAHRA F MCCB MAIN 12 WAY G3 XXXA	12	1	24
BLC.1413FBC18100-XXX	LC 3PH BAHRA F MCCB MAIN 18 WAY G3 XXXA	18	1	18
BLC.1413FBC24100-XXX	LC 3PH BAHRA F MCCB MAIN 24 WAY G3 XXXA	24	1	18
BLC.1413FBC30100-XXX	LC 3PH BAHRA F MCCB MAIN 30 WAY G3 XXXA	30	1	18

LC 3PH BAHRA F MCCB MAIN 36 WAY G3 XXXA

LC 3PH BAHRA F MCCB MAIN 42 WAY G3 XXXA

LC 3PH BAHRA F MCCB MAIN 48 WAY G3 XXXA

BLC-Flush-G3-3PH-Indoor-IP40-MCCB-250AF/ XXXAT-12W

BLC-Flush-G3-3PH-Indoor-IP40-MCCB-250AF/ XXXAT-18W

BLC-Flush-G3-3PH-Indoor-IP40-MCCB-250AF/ XXXAT-24W

BLC-Flush-G3-3PH-Indoor-IP40-MCCB-250AF/ XXXAT-30W

BLC-Flush-G3-3PH-Indoor-IP40-MCCB-250AF/ XXXAT-36W

BLC-Flush-G3-3PH-Indoor-IP40-MCCB-250AF/ XXXAT-42W

BLC-Flush-G3-3PH-Indoor-IP40-MCCB-250AF/ XXXAT-48W

LC BAHRA MAIN MCCB 125A - 250A

36

42

48

12

18

24

30

36

42

48

1

1

1

1

1

1

1

1

1

1

12

12

12

18

18

18

12

12

12

12

BAHRA LOAD CENTER

**XXX: LC AMPERE RATING** 

BLC.1413FBC36100-XXX

BLC.1413FBC42100-XXX

BLC.1413FBC48100-XXX

BLC.1413FFC12250-XXX

BLC.1413FFC18250-XXX

BLC.1413FFC24250-XXX

BLC.1413FFC30250-XXX

BLC.1413FFC36250-XXX

BLC.1413FFC42250-XXX

BLC.1413FFC48250-XXX

## ITEMS LIST WITH PRODUCT PACKING

	Plug In / Branch Breaker			
	BRANCH BREAKER 1 POLE			
Item Code	Item Description	Amper	Carton / Pcs	Pallet / Pcs
BLC.BRBEDP106H	BAHRA MCB 1P 06A 10KA PLUG IN	6	120	3480
BLC.BRBEDP110H	BAHRA MCB 1P 10A 10KA PLUG IN	10	120	3480
BLC.BRBEDP116H	BAHRA MCB 1P 16A 10KA PLUG IN	16	120	3480
BLC.BRBEDP120H	BAHRA MCB 1P 20A 10KA PLUG IN	20	120	3480
BLC.BRBEDP125H	BAHRA MCB 1P 25A 10KA PLUG IN	25	120	3480
BLC.BRBEDP132H	BAHRA MCB 1P 32A 10KA PLUG IN	32	120	3480
BLC.BRBEDP140H	BAHRA MCB 1P 40A 10KA PLUG IN	40	120	3480
BLC.BRBEDP150H	BAHRA MCB 1P 50A 10KA PLUG IN	50	120	3480
BLC.BRBEDP163H	BAHRA MCB 1P 63A 10KA PLUG IN	63	120	3480
	BRANCH BREAKER 2 POLE			
BLC.BRBEDP210H	BAHRA MCB 2P 10A 10KA PLUG IN	10	60	1740
BLC.BRBEDP216H	BAHRA MCB 2P 16A 10KA PLUG IN	16	60	1740
BLC.BRBEDP220H	BAHRA MCB 2P 20A 10KA PLUG IN	20	60	1740
BLC.BRBEDP225H	BAHRA MCB 2P 25A10KA PLUG IN	25	60	1740
BLC.BRBEDP232H	BAHRA MCB 2P 32A 10KA PLUG IN	32	60	1740
BLC.BRBEDP240H	BAHRA MCB 2P 40A 10KA PLUG IN	40	60	1740
BLC.BRBEDP250H	BAHRA MCB 2P 50A 10KA PLUG IN	50	60	1740
BLC.BRBEDP263H	BAHRA MCB 2P 63A 10KA PLUG IN	63	60	1740
	BRANCH BREAKER 3 POLE			
BLC.BRBEDP310H	BAHRA MCB 3P 10A 10KA PLUG IN	10	40	1160
BLC.BRBEDP316H	BAHRA MCB 3P 16A 10KA PLUG IN	16	40	1160
BLC.BRBEDP320H	BAHRA MCB 3P 20A 10KA PLUG IN	20	40	1160
BLC.BRBEDP325H	BAHRA MCB 3P 25A 10KA PLUG IN	25	40	1160
BLC.BRBEDP332H	BAHRA MCB 3P 32A 10KA PLUG IN	32	40	1160
BLC.BRBEDP340H	BAHRA MCB 3P 40A 10KA PLUG IN	40	40	1160
BLC.BRBEDP350H	BAHRA MCB 3P 50A 10KA PLUG IN	50	40	1160
BLC.BRBEDP363H	BAHRA MCB 3P 63A 10KA PLUG IN	63	40	1160
	eRCBO 30mA			
BLC.BRBEDRCOP11630H	Bahra RCBO 1P 16A 30MA 10KA 240V PLUG IN	16	54	1620
BLC.BRBEDRCOP12030H	Bahra RCBO 1P 20A 30MA 10KA 240V PLUG IN	20	54	1620
BLC.BRBEDRCOP13230H	Bahra RCBO 1P 32A 30MA 10KA 240V PLUG IN	32	54	1620
BLC.BRBEDRCOP14030H	Bahra RCBO 1P 40A 30MA 10KA 240V PLUG IN	40	54	1620

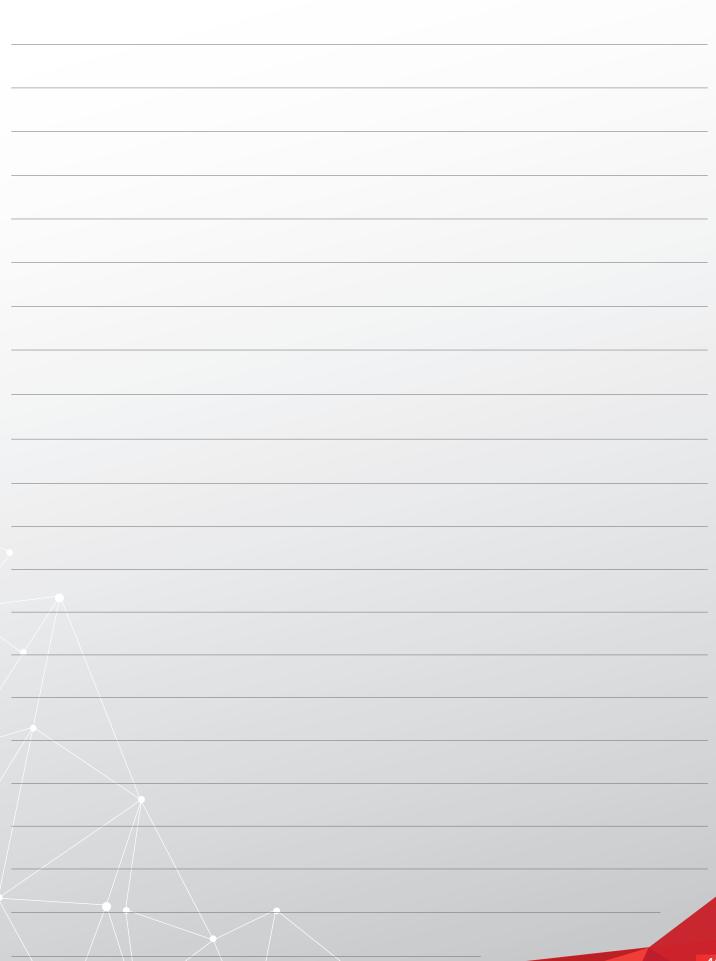
## ITEMS LIST WITH PRODUCT PACKING

BAHRA CBE MCCB 100A - 250A (Indoor)				
	FLUSH MOUNTING			
Item Code	Item Description	Amper	Carton / Pcs	Pallet / Pcs
BLC.4413FBC100-063	BAHRA CBE Indoor Flush Mounting 3PH MCCB 100AF / 63AT	63	1	30
BLC.4413FBC100-100	BAHRA CBE Indoor Flush Mounting 3PH MCCB 100AF / 100AT	100	1	30
BLC.4413FFC250-160	BAHRA CBE Indoor Flush Mounting 3PH MCCB 250AF / 160AT	160	1	30
BLC.4413FFC250-200	BAHRA CBE Indoor Flush Mounting 3PH MCCB 250AF / 200AT	200	1	30
BLC.4413FFC250-250	BAHRA CBE Indoor Flush Mounting 3PH MCCB 250AF / 250AT	250	1	30
	SURFACE MOUNTING			
BLC.4423FBC100-063	BAHRA CBE Indoor SURFACE Mounting 3PH MCCB 100AF / 063AT	63	1	30
BLC.4423FBC100-080	BAHRA CBE Indoor SURFACE Mounting 3PH MCCB 100AF / 080AT	100	1	30
BLC.4423FBC100-100	BAHRA CBE Indoor SURFACE Mounting 3PH MCCB 100AF / 100AT	160	1	30
BLC.4423FFC250-160	BAHRA CBE Indoor SURFACE Mounting 3PH MCCB 250AF / 160AT	200	1	30
BLC.4423FFC250-200	BAHRA CBE Indoor SURFACE Mounting 3PH MCCB 250AF / 200AT	250	1	30

BAHRA CBE MCCB 100A (Weatherproof)				
IP65 WEATHERPROOF - INDOOR SURFACE MOUNTING				
Item Code	Item Description	Amper	Carton / Pcs	Pallet / Pcs
BLC.CSWM-3100	BAHRA CBE SURFACE Mounting IP65 MCCB 25KA - 3PH 100A	100	1	25

	BAHRA BUSBAR CHAMBER			
	MCCB 100A - 400A			
Item Code	Item Description	Amper	Carton / Pcs	Pallet / Pcs
BB.BBCF100ACu	Bus Bar Chamber Copper Bus Bar MCCB 100A 18ka	100	1	10
BB.BBCF160ACu	Bus Bar Chamber Copper Bus Bar MCCB 160A 25ka	160	1	10
BB.BBCF200ACu	Bus Bar Chamber Copper Bus Bar MCCB 200A 25ka	200	1	10
BB.BBCF250ACu	Bus Bar Chamber Copper Bus Bar MCCB 250A 25ka	250	1	10
BB.BBCF320ACu	Bus Bar Chamber Copper Bus Bar MCCB 320A 36ka	320	1	4
BB.BBCF400ACu	Bus Bar Chamber Copper Bus Bar MCCB 400A 36ka	400	1	4

# **NOTES**





**PRODUCES QUALITY** تنتــــج الجــــودة



## BAHRA **DISTRIBUTION BOARDS**



**DOWNLOAD** E-CATALOGUE

















