

Simply Better



powerbox[®]

ENCLOSED CIRCUIT BREAKER

- 100% Galvanized Materials, offers better resistance to corrosion
- Manufactured using state-of-the-art CNC Machines for precise and accurate punching, cutting and bending of metal fabrication parts
- Painted finish using fully-conveyorized powder coating system



STANDARD SPECIFICATIONS :

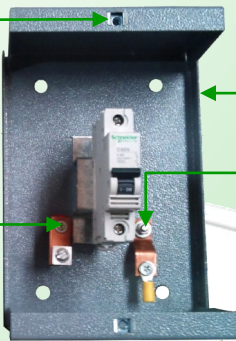
DEGREE OF PROTECTION	: IP41/ IP53/ IP54
RATED CURRENT	: up to 1600 Amps.
CIRCUIT BREAKER NUMBER OF POLES	: 1P/ 2P/ 3P/ 4P
MOUNTING TYPE	: Wall mounted
MATERIALS	: 100% Galvanized steel sheet
SHEET METAL THICKNESS	: 1.6 mm/ 1.3 mm
PAINT FINISH	: Powder coated finish with pure polyester paint
PAINT COATING THICKNESS (minimum)	: 80 microns
PAINT TEXTURE	: Spotted/ Smooth
COLOR	: RAL 9003 Beige/ RAL 7035 Gray

ECB Features

ENCLOSURE DESIGNED TO HAVE FULL & BETTER ACCESSIBILITY DURING CABLE TERMINATION

CAGE NUT

- HIGHLY DURABLE 5 - FULL THREADS
- NO LOOSE THREADS
- NO MANUAL HAND TAPPING



NEUTRAL TERMINAL

GROUND TERMINAL

SWING-UP COVER W/ BUILT - IN SUPPORT



DEAD FRONT COVER

NEUTRAL TERMINAL

GROUND TERMINAL

CAGE NUT

- HIGHLY DURABLE 5 - FULL THREADS
- NO LOOSE THREADS
- NO MANUAL HAND TAPPING



BOLTED COVER

CAGE NUT

- HIGHLY DURABLE 5 - FULL THREADS
- NO LOOSE THREADS
- NO MANUAL HAND TAPPING

CONCEALED HINGE

DEAD FRONT HOLDER

UNIQUE QA/QC STICKER

BOLTED TYPE DEAD FRONT COVER

ADJUSTABLE BRACKETS

- HINGED TYPE DEAD FRONT AVAILABLE UPON REQUEST

PUSH TO LOCK WITH KEY

RUBBER GASKET

DIRECTORY

DIRECTORY HOLDER

COVER STIFFENER

DEAD FRONT STOPPER

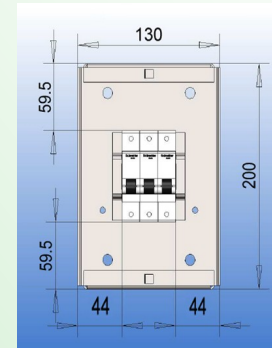
GROUND BUS W/ LUGS



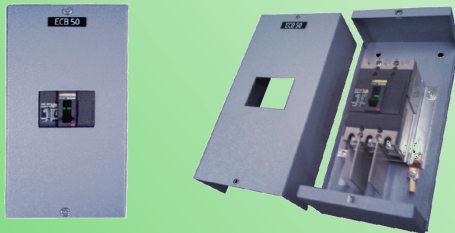
ECB's for Indoor Application



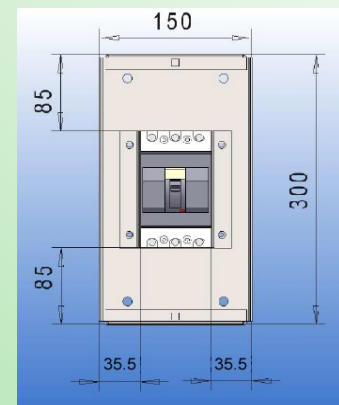
TECHNICAL SPECIFICATION :	
SUITABLE FOR	: Din Rail type MCB, Bolt-on, Plug-in MCB
DEGREE OF PROTECTION	: IP41
DIMENSIONS (mm)	: 200 H x 130 W x 80 D
RATED CURRENT	: up to 125 Amps.
RATED OPERATIONAL VOLTAGE	: 415/240, 220/120 VAC
MCB NUMBER OF POLES	: 1P/ 2P/ 3P
MOUNTING TYPE	: Wall mounted
ENCLOSURE MATERIALS	: 100% Galvanized Steel Sheets



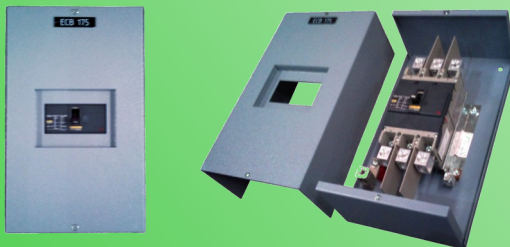
DEPTH : 80 mm



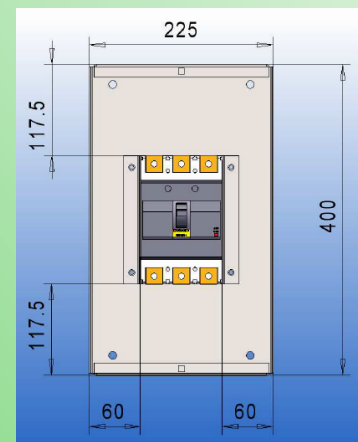
TECHNICAL SPECIFICATION :	
SUITABLE FOR	: 100AF MCCB type
DEGREE OF PROTECTION	: IP41
DIMENSIONS (mm)	: 300 H x 150 W x 80 D
RATED CURRENT	: up to 100 Amps.
RATED OPERATIONAL VOLTAGE	: up to 550 VAC
MCCB NUMBER OF POLES	: 1P/ 2P/ 3P
MOUNTING TYPE	: Wall mounted
ENCLOSURE MATERIALS	: 100% Galvanized Steel Sheets



DEPTH : 80 mm



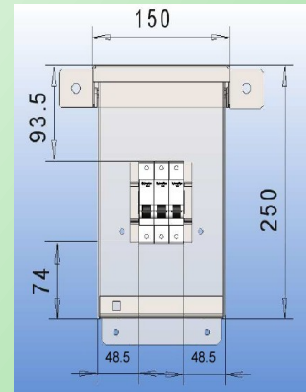
TECHNICAL SPECIFICATION :	
SUITABLE FOR	: 250AF MCCB type
DEGREE OF PROTECTION	: IP41
DIMENSIONS (mm)	: 400 H x 225 W x 110 D
RATED CURRENT	: up to 250 Amps.
RATED OPERATIONAL VOLTAGE	: up to 550 VAC
MCCB NUMBER OF POLES	: 2P/ 3P
MOUNTING TYPE	: Wall mounted
ENCLOSURE MATERIALS	: 100% Galvanized Steel Sheets



DEPTH : 110 mm



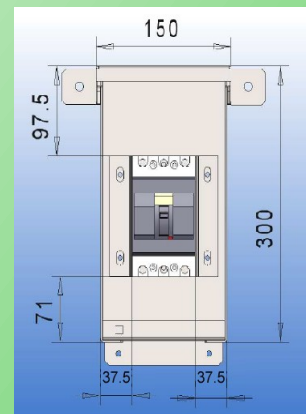
TECHNICAL SPECIFICATION :	
SUITABLE FOR	: Din Rail type MCB, Bolt-on, Plug-in MCB
DEGREE OF PROTECTION	: IP53
DIMENSIONS (mm)	: 250 H x 150 W x 110 D
RATED CURRENT	: up to 125 Amps.
RATED OPERATIONAL VOLTAGE	: 415/240, 220/120 VAC
MCB NUMBER OF POLES	: 1P/ 2P/ 3P
MOUNTING TYPE	: Wall mounted
ENCLOSURE MATERIALS	: 100% Galvanized Steel Sheets



DEPTH : 110 mm



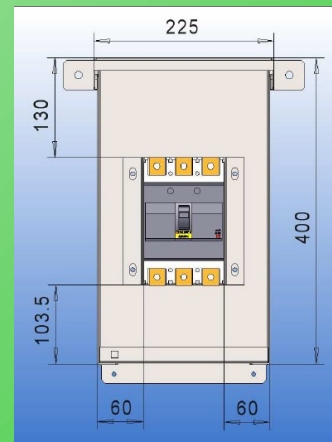
TECHNICAL SPECIFICATION :	
SUITABLE FOR	: 100AF MCCB type
DEGREE OF PROTECTION	: IP53
DIMENSIONS (mm)	: 300 H x 150 W x 110 D
RATED CURRENT	: up to 100 Amps.
RATED OPERATIONAL VOLTAGE	: up to 550 VAC
MCCB NUMBER OF POLES	: 1P/ 2P/ 3P
MOUNTING TYPE	: Wall mounted
ENCLOSURE MATERIALS	: 100% Galvanized Steel Sheets



DEPTH : 110 mm



TECHNICAL SPECIFICATION :	
SUITABLE FOR	: 250AF MCCB type
DEGREE OF PROTECTION	: IP53
DIMENSIONS (mm)	: 400 H x 225 W x 125 D
RATED CURRENT	: up to 250 Amps.
RATED OPERATIONAL VOLTAGE	: up to 550 VAC
MCCB NUMBER OF POLES	: 2P/ 3P
MOUNTING TYPE	: Wall mounted
ENCLOSURE MATERIALS	: 100% Galvanized Steel Sheets

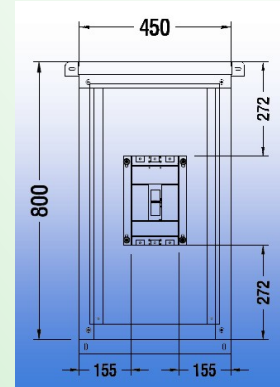


DEPTH : 125 mm

ECB's for Outdoor Application



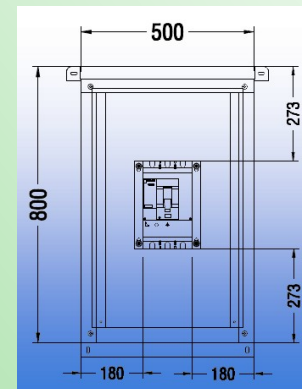
TECHNICAL SPECIFICATION :		
SUITABLE FOR	:	400AF MCCB type
DEGREE OF PROTECTION	:	IP54
DIMENSIONS (mm)	:	800 H x 450 W x 250 D
RATED CURRENT	:	up to 400 Amps.
RATED OPERATIONAL VOLTAGE	:	up to 550 VAC
MCCB NUMBER OF POLES	:	3P/4P
MOUNTING TYPE	:	Wall mounted
ENCLOSURE MATERIALS	:	100% Galvanized Steel Sheets



DEPTH : 250 mm



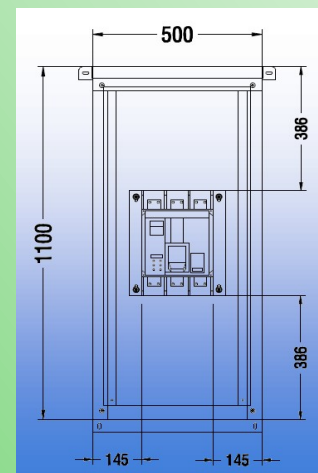
TECHNICAL SPECIFICATION :		
SUITABLE FOR	:	630AF MCCB type
DEGREE OF PROTECTION	:	IP54
DIMENSIONS (mm)	:	800 H x 500 W x 250 D
RATED CURRENT	:	up to 630 Amps.
RATED OPERATIONAL VOLTAGE	:	up to 550 VAC
MCCB NUMBER OF POLES	:	3P/ 4P
MOUNTING TYPE	:	Wall mounted
ENCLOSURE MATERIALS	:	100% Galvanized Steel Sheets



DEPTH : 250 mm



TECHNICAL SPECIFICATION :		
SUITABLE FOR	:	1600AF MCCB type
DEGREE OF PROTECTION	:	IP54
DIMENSIONS (mm)	:	1100 H x 500 W x 300 D
RATED CURRENT	:	up to 1600 Amps.
RATED OPERATIONAL VOLTAGE	:	up to 550 VAC
MCCB NUMBER OF POLES	:	3P/ 4P
MOUNTING TYPE	:	Wall mounted
ENCLOSURE MATERIALS	:	100% Galvanized Steel Sheets



DEPTH : 300 mm



CUSTOMIZED DESIGN & SPECIFICATION AVAILABLE ON REQUEST



MATERIALS (100% GALVANIZED STEEL SHEET)

Galvanized steel sheet has a coating of zinc and aluminum, combining the best properties and offers better resistance against rust and corrosion, even in saline environments.

POWDER COATING

Powerbox Fully-Conveyorized powder coating system offers an advance method of applying coat and protective finish to all metal parts. Pure polyester powder paint is electrostatically sprayed on the metal parts/surface to be coated. The charged powder particles adhere to the electrically grounded metal surface, heated at 200 °C in the curing oven for at least 20 minutes, resulting in a uniform 80 microns coating, that offers high resistance against environmental corrosion and abrasion.



Best-in-class low voltage protection from 100 to 630 A



EasyPact EZC: The easy choice for simplicity and affordability

Application

Ideal for feeders and sub-feeders in residential, commercial, and marine applications.

Highly cost effective

Combines an attractive price point with dependable quality.

Simplicity

Multiple connection options:

- > Fixed front mounting, plug-in mounting, front connections, bare cables connected through cable lugs, screwed inside the breaker
- > Unique 'fish bone' connection, space saving especially for marine applications



EasyPact CVS: The easy choice for quality and value

Application

An excellent choice for feeders and sub-feeders in small and medium industrial and commercial buildings.

Performance

Better reliability and safety than competing breakers:

- > $I_{cs} = 100\% I_{cu}$
- > Suitable for reverse feeding applications
- > Adjustable thermal protection
- > Optional insulation fault protection
- > IEC 60947-2 isolation and highly visible contact position ensures the downstream circuit is safe

Flexibility

- > Compatible with copper and aluminium connections

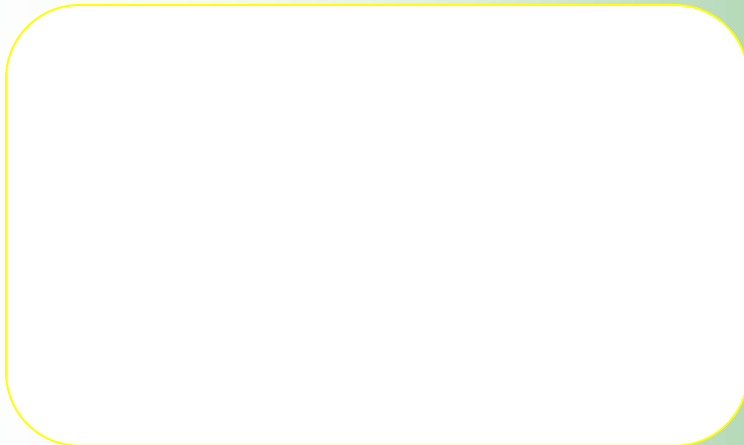
Model Comparison	EasyPact EZC										EasyPact CVS				
Circuit breakers	EZC100				EZC250			EZCV250		EZC400		CVS630			
Type	B	F	N	H	F	N	H	N	H	F	N	F	N		
Current ratings	15-60				15-100			63-250		250-400		500-630			
Breaking capacity, I_{cu} (kA rms) at 240V AC	10	25	25	100	25	50	85	85	100	85	100	40	70		
Breaking capacity, I_{cu} (kA rms) at 415V AC	7.5	10	15	30	18	25	36	25	36	36	50	36	50		
Breaking capacity, I_{cu} (kA rms) at 440V AC	5	7.5	10	20	15	20	25	20	25	36	50	30	42		
Breaking capacity, I_{cu} (kA rms) at 690V AC															
Number of poles	3/4*										3/4				
Breaking time (ms)	—										—				
Closing time (ms)	—										—				
Protection															
Magnetic	—										MA for short-circuit				
Thermal-magnetic	Overload & short-circuit										TMD for overload & short-circuit				
Electronic	—										Integrated earth leakage		ETS for overload & short-circuit		
Standards	IEC 60947-2										Optional Vigi module for earth leakage				
											IEC 60947-2				
Switch disconnectors	Not available for this range										CVS630				
Type											NA				
Short-time withstand (I_{cw} rms) (1s)											6,0				
Standards											IEC 60947-3				
Circuit breakers and switch disconnectors															
Connection	Fixed front and rear, copper and aluminum compatibility										Fixed front and rear, copper and aluminum compatibility				
Dimensions H x W x D (mm)															
Drawout, 3-pole	—										—				
Drawout, 4-pole	—										—				
Fixed, 3-pole	130 x 60 x 75			165 x 60 x 105			257 x 103 x 140			255 x 140 x 110 (355 x 135 x 110 with Vigi)					
Fixed, 4-pole	130 x 60 x 100			165 x 68 x 140			257 x 103 x 185			255 x 185 x 110 (355 x 180 x 110 with Vigi)					
Accessories															
Fault trip indication contact	—										—				
Auxiliary contacts	Yes										Yes				
Locking capability	Padlocking										Key locks and padlocking				
Rotary handles	Yes										Yes				
Shields, barriers, extensions, spreaders	AI										AI				
Certifications	GOST, CCC, CCS										GOST, CCC, CCS				

* 1 and 2 pole also available, specifications available on request.

Certificate



Authorized Distributor :



Call us on our: _____

- Customer Care Service Hotline
Tel: (02) 806-9716
(046) 686-5446
- Technical Service Hotline
Mobile: 0922-874-5355
0922-811-8120
0922-812-3619

www.powerboxsolutions.com

The information contained herein is subject to change without prior notice due to continuing research and development.