

## MAXIMUM SAFETY

Superior safety performance proven by the tests in the international accredited testing laboratories based on the IEC standards ...

### IEC 61439 - 1/2

- Durability of materials and sections
- Degree of protection of enclosures
- Clearances and creepage distances
- Integrity of electric shock protection and protection circuits
- Incorporation of built-in components
- Internal electric circuits and connections
- Terminals for external conductors
- Dielectric properties
- Verification of temperature rise for 35°C & 50°C
- Short circuit withstand strength Icw 1 sec.
- Electromagnetic compatibility
- Mechanical operation

### IEC 61641

Samcon provides full user safety even in the case of internal arc failures due to its safe design

### IEC 60068-3-3 / IEE 693:2005

Samcon panels have been tested against earthquakes in magnitude of 7.0 and over, on the Richter scale and provides protection in ZONE 4 class

### IEC 60529

Protection options against external factors upto the IP 54 level

### IEC 62262

IK 10 protection level against mechanical effects in the most difficult conditions

### CE 2014 / 35

Compliance with the custom norms and regulations of the Eurasian Economic Union

ASTA certified IEC 61439 1 & 2

## CONTINUOUS POWER

### WIDE APPLICATION RANGE

- **Power Distribution Applications**  
Power distribution applications upto 6300 A  
Withdrawable applications for safe and continuous solutions  
Fixed solutions for economical solutions
- **Motor Control Centre Applications / MCC**  
Fixed MCC for economic solutions  
Withdrawable MCC for continuity and safety  
Soft starter & variable speed drive applications

### Modular Structure

- Quick and easy assembly
- Front or rear connection
- Bottom and top cable entry options
- Expandable cable module

### Individual Front Door

- Full or individual door
- Operation behind or through door
- Mechanism control
  - Toggle
  - Rotary handle
  - Motor mechanism

## FIELD APPLICATIONS

Samcon is designed for the needs of consumers in many fields from heavy industry to construction. Offering safe working conditions from Form 1 to Form 4b with fixed and withdrawable modules. Samcon provides several advantages in various areas of implementation.

- Mining
- Iron Steel Industry
- Oil & Gas Industry
- Water Treatment Plants
- High Building
- Automotive Industry
- Food Industry
- Airports
- Power Generation & Distribution Centers
- Cement Industry



## SAMCON INDUSTRIAL CONTROLS PVT. LTD.

ISO 9001:2015 • ISO 14001:2015 • ISO 18001:2007 Certified Organisation

CIN No.: U31200MH1998PTC114659



CPRI, ERDA TYPE TESTED TTA PANNELS

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## SAMCON INDUSTRIAL CONTROLS PVT. LTD.



**DRIVEN BY THE DESIRE TO DELIVER THE BEST**



Schneider  
Core Components  
Panel Builder

## TECHNICAL SPECIFICATIONS



Standards	IEC 61439-1/2 IEC 61641 IEC 60068 -3-3
Rated Voltage (Ue)	690V
Nominal Current (In)	Upto 4000 A
Rated Insulation Voltage (Ui)	Upto 1000 V
Rated Impulse-Withstand Voltage (Uimp)	Upto 12 kV
Degree of Protection (IP)	Upto IP54
Mechanical Strength (IK)	10
Rated Peak Withstand Current (Ipk)	Upto 143 kA
Degree of Separation	Form 2b / 3b / 4b
Rated Short Time Withstand Current (Icw)	65 kA - 1s
Connection Type	F.F.F. - W.W.W
Pollution Degree	3
Material Group	IIIa
Internal Arc Withstand	50 rms - 0.5 ms
Seismic Withstand	Upto ZONE 4

Double Air Circuit Breaker Module	Convert Module	Air Circuit Breaker Module	Distribution Module	Moulded Case Circuit Breaker Module	Cable Module	Combined Module	Cable Module
Width 800/1000	Width 300/400	Width 800/1000/1200	Width 250/800	Width 300 to 800	Width 300/400	Width 200+400 /	Width 300/400/500
In = 800A - 1600A	In = 495A - 6300A	In = 800A - 4000A	In = 495A - 6300A	In = 16A - 800A	Form 3b/4b	200+600	Form 3b/4b
Icw = 65 kA ≤ 4200kA	Icw = 65 kA ≤ 100kA	Icw = 65 kA ≤ 3800A	Icw = 65 kA ≤ 100kA	Icc ≤ 65 kA	IP54	In = 16A - 1000A	IP54
Ue = 690 V	Ue = 1000 V	Ue = 690 V	Form 4b	Ue = 690 V		Icw ≤ 65 kA	
Ui = 1000 V	Form 4b	Ui = 1000 V	IP54	Ui = 800 V		Icc ≤ 65 kA	
Uimp = 12 kV	IP54	Uimp = 12 kV		Uimp = 8 kV		Ue = 690 V	
Form 2b / 3b / 4b		Form 2b / 3b / 4b		Form 2b / 3b / 4b		Ui = 800 V	
IP40 Individual Door		IP40 Individual Door		IP40 Individual Door		Uimp = 8 kV	
IP54 Full Door		IP54 Full Door		IP54 Full Door		Form 2b / 3b / 4b	
F.F.F. - W.W.W.		F.F.F. - W.W.W.		F.F.F.		IP40 Individual Door	
						IP54	
						F.F.F.	

## FEATURES THAT MAKE DIFFERENCE

- **Standardized Modular Structure :**  
Numerous fixed and withdrawable configuration solutions in the expandable structure
- **Easy Field Connection :**  
Field applications are now easier with front access and expandable cable modules
- **Operator Protection Against On-Line Energy :**  
Prevention of direct contact of the operator to the energized busbars and live parts.
- **Completely Isolated Busbar Section :**  
User safety and arc protection between phases with the isolated busbar section
- Totally type tested assembly from 32 Amp. to 4000 Amps. 65 KA -1 sec
- Internal Arc tested 0.5 m/sc
- Seismic type tested 0.5 g
- ASTA Certified 2500 kA - 50 kA - 1 sec
- Powder coated after 11 tank PLC based pre-treatment
- Use of H.T. bolts for busbar joints
- Degree of protection from IP 21 to IP 65
- Polycarbonate shrouds on live parts
- Bellows on snapfit connections
- ROHS compliant hardware

