

Economical, reliable and user friendly



## SIEPAN 8PU

Low Voltage Switchboards

Answers for Industry.

**SIEMENS**

# SIEPAN 8PU L4.5

## Power Control Centre

### Compact, Safe, Reliable and User-Friendly



- High degree of reliability by virtue of type tested assemblies.
- Test and disconnected position with door closed.
- Separate function compartments
- High degree of safety for operating personnel
- Siemens drawout and non drawout circuit breakers are used for the rated current range from 630 to 4000A.
- Indication and operation in the door closed condition.

## SIEPAN 8PU L4.5

### Technical Data

Product Type		8PU L4.5
Busbar execution [In AI Option]	Standard	Non interleaved
	Optional	Interleaved
Ratings		
Operational Voltage Ue [V]	Standard	415
	Optional	690-1000
Current In [A]	Standard	630 - 4000
Insulation Voltage Ui [V]	Standard	690
	Optional	800 - 1000
Rated Short Circuit level	Standard	50kA/1S/105kAP
	Optional	65kA/1S/143kA
Reference Standard		IS 8623-1 / IEC 439
Reference Ambient for Design	Standard	40 Deg C
	Optional	Upto 50 Deg C
Standard Dimensions (Per Panel Basis)	Height [mm]	2300 [Addn 200 for Vent box for 3000A and above]
	Width [mm]	560 - 1000
	Depth [mm]	1120 - 1360
Deg of Protection		
<=1600A	Standard	IP 52
	Optional	IP 54
> 1600A	Standard	IP 42



# SIEPAN 8PU L4.5 Power Control Centre Compact, Safe, Reliable and User-Friendly



## A unique design

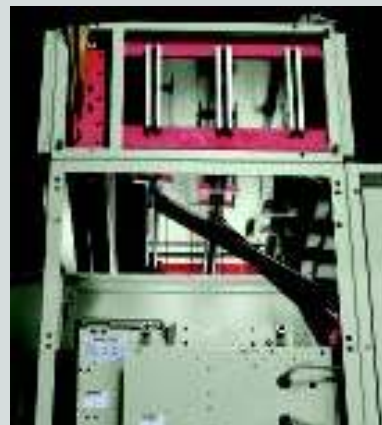
Unique double panel design for the outgoing feeders in place of conventional double tier panel.



All control accessories accessible from the front, hence testing is possible with the CB door closed.



Independent auxiliary compartment gives optimum space for mounting auxiliary devices even for extensive control and interlocking schemes.



Fewer joints between busbars and air circuit breakers makes the panel cooler.

## Easy to operate and maintain



Telescopic rail facilitates access for maintenance with ACB in the Panel.



Independent access to power terminals for safety during operation. Also more cabling space.

# SIEPAN 8PU F4.5, F4.6

## Non Drawout Motor Control Centre

### Economical, Safe, Reliable and Easy to maintain



#### SIEPAN 8PU F4.5 non drawout design offers economical yet reliable system

- High degree of reliability by virtue of type-tested assemblies.
- Any combination of modular function units.
- Easy replacement of functional units.
- Direct alignment with SIEPAN 8PU L4.5

#### SIEPAN 8PU F4.5, F4.6 : more than a non drawout panel

- The modular functional units enable efficient installation and maintenance.
- Vertical busbars is accessible even in double front panels.
- Internal separation between each functional units.
- Fully shrouded power cable terminations ensures shock hazard protection.
- All terminals are visible and can be tested from front.



## SIEPAN 8PU F4.5, F4.6

### Technical Data

Product Type		8PU F4.5	8PU F4.6
Busbar execution [In AI Option]	Standard	Non inerleaved	Non inerleaved
	Optional	Interleaved	Interleaved
<b>Ratings</b>			
Operational Voltage Ue [V]	Standard	415	415
	Optional	380 ,550, 690	380 ,550, 690
Current In [A]	Standard	630 - 3000	630 - 3000
	Optional	4000	4000
Insulation Voltage Ui [V]	Standard	690	690
	Optional	800 - 1000	800 - 1000
Rated Short Circuit level	Standard	50kA/1S/105kAP	50kA/1S/105kAP
	Optional	65kA/1S/143kA	65kA/1S/143kA
Reference Standard		IS 8623-1 / IEC 439	IS 8623-1 / IEC 439
<b>Termination arrangement</b>			
Type	Standard	Cables	Cables
Entry	Standard	Bottom	Bottom
	Optional	Top	Top
Cable access, during Maintenance	Standard	Front	Rear
Reference Ambient for Design	Standard	40 Deg	40 Deg
	Optional	Upto 50 Deg	Upto 50 Deg
Standard Dimensions (Per Panel Basis)	Height [mm]	2300	2300
	Width [mm]	880 - 980	630 - 730
	Depth [mm]	560 (Non Int.)	560 (Non Int.)
<b>Deg of Protection</b>			
<=1600A	Standard	IP 52	IP 52
	Optional	IP 54	IP 54
> 1600A	Standard	IP 42	IP 42



# SIEPAN 8PU F4.5 Non Drawout Motor Control Centre Economical, Safe, Reliable and Easy to maintain



## Easy to operate and maintain



Access to the last vertical busbar available from both sides.



Module width of 500 mm facilitates safe & easy equipment replacement.

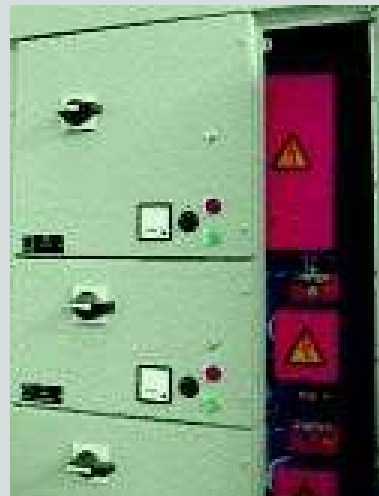


Wide 250mm Cable alley makes cable termination easy.

## Provides safety



Door interlocks & padlocking facility.



Totally shrouded Power terminals.



Main busbars and control busbars are totally segregated from each other. Upto 11 number control bus per panel.



Unique design with rear cable access

# SIEPAN 8PU T3.5

## Non Drawout power supply feeder panels

### Compact, Safe, Reliable and User-Friendly



- Separate vertical busbar chamber.
- Compartmentalised feeders.
- Cable compartment at rear for safety & ease of termination.

## SIEPAN 8PU T3.5

### Technical Data

Product Type		8PU T3.5
Busbar execution [In AI Option]	Standard	Non interleaved
	Optional	Interleaved
Ratings		
Operational Voltage Ue [V]	Standard	415
	Optional	690-1000
Current In [A]	Standard	630 - 4000 [Max VBB rating : 1400 A]
Insulation Voltage Ui [V]	Standard	690
	Optional	800 - 1000
Rated Short Circuit level	Standard	50kA/1S/105kAP
	Optional	65kA/1S/143kA
Reference Standard		IS 8623-1 / IEC 439
Reference Ambient for Design	Standard	40 Deg C
	Optional	Upto 50 Deg C
Standard Dimensions (Per Panel Basis)	Height [mm]	2300
	Width [mm]	730
	Depth [mm]	1120 - 1360
Deg of Protection		
<=1600A	Standard	IP 52
	Optional	IP 54
> 1600A	Standard	IP 42



# SIEPAN 8PU - Fully type tested

SIEPAN 8PU, type tested at an independent test laboratory assures maximum reliability and safety. Major type tests carried out are:

- Verification of temperature rise limits.
- Verification of dielectric strength
- Verification of the short circuit withstand with 3WL, 3WT ACB inside
- Verification of degree of protection.
- Verification of suitability for Seismic Zone – V

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION  
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E-MAIL : erda@rediffmail.com

**TEST REPORT**

• SC testing of ACB (3WL / 3WT) inside panels with MBB (50kA) including Neutral (30kA)

**CUSTOMER**  
SAND, JORCA

**REPORT No. 10/1103**  
DATE: 05/08/08

**CUSTOMER TESTING**  
CIRCUIT BREAKER  
RATE OF SAMPLE  
(PERCENT)  
2500/2000

**SAMPLE IDENTIFICATION**  
TYPE DESIGNATION  
XL 80L-30

**WORKING NO.** 4-11  
4-12  
4-13  
4-14  
4-15

• Vertical BB testing (50kA) NDO

**TEST DETAILS**  
Verification of the short circuit withstand strength (CL No. 8.1.3)

**TEST SPECIFICATIONS**  
As per client's requirement & test procedure followed as per IS - 8623 (Part I) - 1995 / IEC No. 439 - 1 (1995)

**ENCLOSURES:**  
NUMBER OF ENCLOSURES : 07/02  
NUMBER OF TEST CIRCUIT DIAGRAM : 01/02

• EBB testing (30kA)

ERDA

(Recognized by the National Accreditation Board for Testing and Calibration Laboratories, Government of India.)

## Reference Indian and International Standards

- IS 8623 (Part I)** : Specification for Low Voltage Switchgear & Controlgear Assemblies: Requirement of Type Tested & Partially. Type Tested Assemblies.
- IEC 439 (Part I)** : Low Voltage Switchgear & Controlgear Assemblies.
- IS 13947 (Part I)** : Specification for Low Voltage Switchgear & Controlgear Part I: General Rules.

- IEC 60947**: Specification for Low Voltage Switchgear & Controlgear.
- IS 5082** : Specification for Wrought Aluminium & Aluminium Alloy Bars, Rods, Tubes & Sections for Electrical Purposes.
- IS 1897** : Specification for Copper Strip for Electrical Purposes.
- IS 11353** : Guide for Uniform System of Marking & Identification of Conductors & Apparatus Terminals.
- IS 5578** : Guide for Marking of Insulated Conductors.

For your requirement, & more information,  
please contact your partner

CDDM-01-002-001  
(This replaces A&D-03-151-005)

Product upgradation is a continuous process. Hence, data in this catalog is subject to change without prior notice. For the latest information, please get in touch with our Sales Offices.