

**SIEMENS**



# SIEPAN 8PU Low Voltage Switchboards Technology by Siemens

Licensed Partner built PCC, IMCC, Draw-out MCCs, APFC solutions

**Answers for industry.**

Siemens 8PU design for low voltage switchboards has become an industry benchmark with proven performance for the past many decades.

Designed to operate in challenging conditions of high ambient & dust 8PU low voltage switchboards have been patronized by various segments like cement, steel, refinery, oil & gas, pharma, F&B, data centres, hospitals & hotels, metro-rail projects having deployed more than 100,000 LV switchboards for maximum reliability and performance.

This proven technology from Siemens for SIEPAN 8PU® LV Switchboards is now also available through a network of Licensed Partners across the country.

### Customer benefits at a glance:

- Siemens innovation & technology
- Maximum reliability in protection of your plant and equipment
- Maximum safety for operating personnel
- Suited for the most arduous site conditions
- Compact and space saving
- Extensive License Partner network across the country

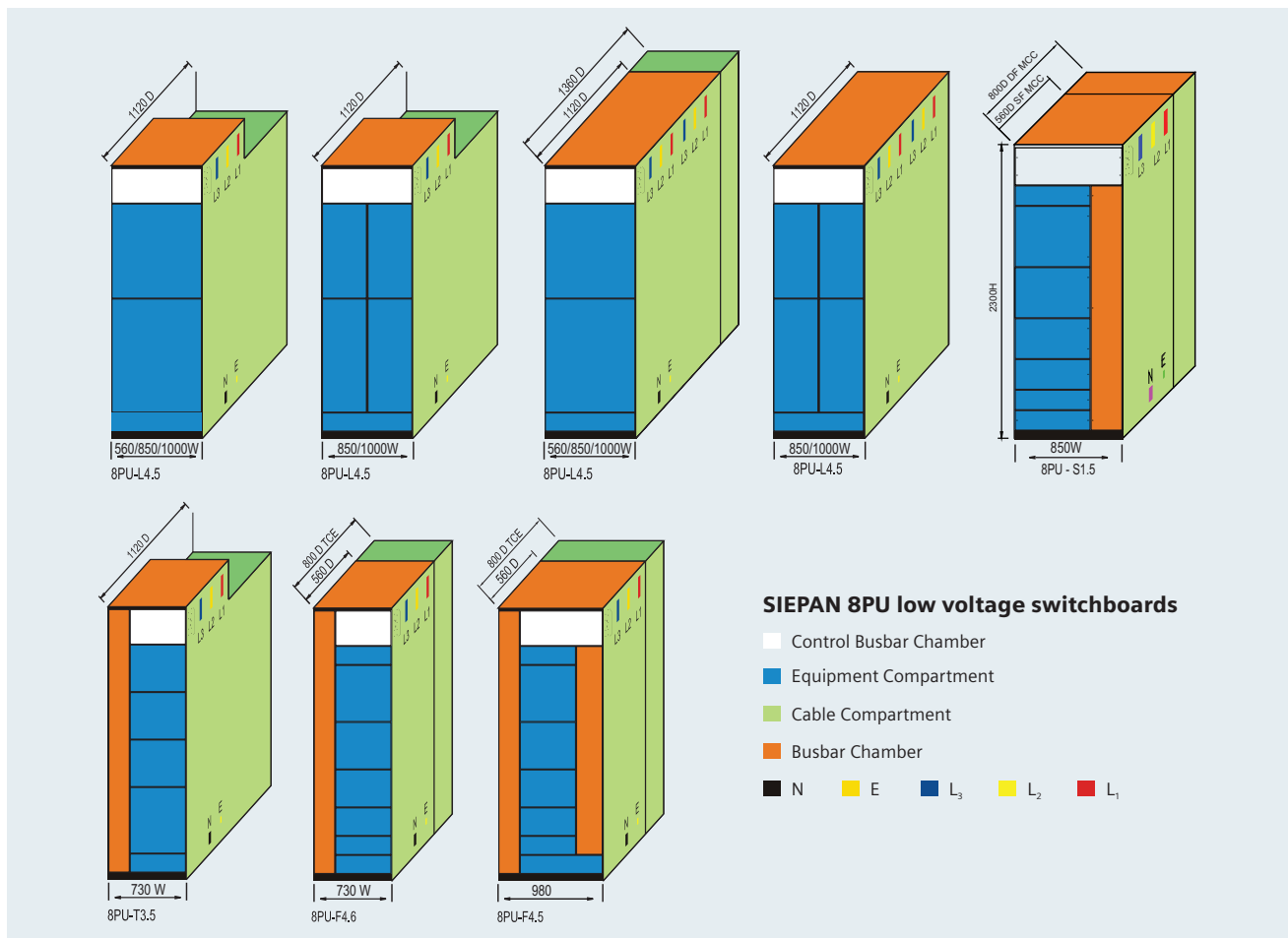
### Highlights:

- Conformance to Type Tested assemblies (TTA)
- Conformance to Seismic withstand upto Zone V
- Conformance to Internal Arc Containment (IAC)
- Fully compartmentalized, bolted & modular design for PCC & MCC
- Non-compartmentalized drive control panels
- Non-compartmentalized APFC panels

### Range:

- Power control centres
- Communication capable intelligent power control centres (IPCCs)
- Withdrawable motor control centres with patented Alstan® bus-bar technology
- Energy management PCCs for Plant & Building
- Motor control centres – Fuseless and with Fuse
- Intelligent motor control centres (IMCCs)
- Integrated PMCCs for Ethernet connectivity
- Automatic power factor correction panels
- All variants available with a choice of aluminum and copper for bus-bars
- Degree of ingress protection upto IP 54 for all ratings

### SIEPAN 8PU – Range & dimensions at a glance



## Brand and Technology nameplates

SIEPAN 8PU LV switchboards manufactured by licensed partners come with brand and technology nameplates affixed to the switchboards qualifying them for top class design innovation from Siemens.



SIEPAN 8PU brand nameplate

The licensed partners for SIEPAN 8PU are authorized to canvas the technology tie-up with Siemens differentiating their offering on quality and reliability.



Technology nameplate

## LV switchboard SIEPAN 8PU:

### Technical Data

Conformance to standards	IS8623-1 / IEC 439
Internal Arc Containment	IEC 61641
Seismic withstand	IS 1893
Short circuit withstand (Icw) - main bus	65kA / 1sec / 143kA peak
Short circuit withstand (Icw) - neutral	39kA / 1sec / 82kA peak
Short circuit withstand (Icw) - earth	39kA / 1sec / 82kA peak
Degree of protection (IP)	IP 4X, 5X, X3, X4
Ambient temperature	40° C / 45° C / 50° C
Temperature rise	As per IEC 61439 -2
Seismic conformance test	Zone III & V
Rated insulation voltage	upto 1000V
Rated operational voltage	upto 690V
Rated impulse withstand	8kV
Main busbar rating	upto 5000A
Busbar execution	Interleaved / non-Interleaved
Busbar options	Copper / aluminium
Infeed termination	Cable / bus ways / busduct
Infeed entry	Top / bottom
Cable feeder access	Front / rear*
ACB cubicle	Single tier
Form of separation	upto form 4B
Standard height	2300mm
Standard depth	1120mm / 560mm
Standard colour shade	RAL 7035

\*ACB Compartment - Only Rear access

SIEPAN 8PU is totally type tested (TTA) for its design reliability as per IS 8623 - 1 / IEC 439.

### Type tests:

1. Verification of temperature rise limits
2. Verification of di-electric properties
3. Verification of short-circuit withstand
4. Verification of continuity of protective circuit
5. Verification of clearances and creepage distance
6. Verification of mechanical operation
7. Verification of degree of protection

### Special test

1. Verification of seismic withstand for zone III / V
2. Verification of internal arc containment (IAC)

### Routine tests:

1. Inspection of wiring and electrical operation
2. Verification of insulation
3. Verification of protective measures and continuity of protective circuits
4. Verification of insulation resistance

**ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION**  
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**TEST REPORT** Sheet 1 of 16

**NAME & ADDRESS OF THE CUSTOMER** : SIEMENS LIMITED  
 KALWA WORKS,  
 THANE BELAPUR ROAD,  
 THANE - 400 601

**TEST REPORT NO.** : L5602/2013  
**DATE** : 31/08/2013

**CUSTOMER REF. NO.** :  
**DATED** : 18/07/2013

**DATE OF SAMPLE RECEIPT** : 19/07/2013  
**DATE OF TESTING** : 23/07/2013

**SAMPLE DESCRIPTION** : SIEPAN 8PU 3200A/3P S4/4B  
 Rated voltage : 690 V  
 Rated current : 3200 A  
 Rated frequency : 50 Hz  
 No. of Phases : 3 (P+N)  
 (Quantity Electric)

**SAMPLE IDENTIFICATION** : ERDA sample code no. : ERDA-00012983  
**Type designation** : SIEPAN 8PU 3200A/3P S4/4-B/55KA-14

**TEST SPECIFICATION**  
 As per customer's requirement & test procedure followed as per IEC 61439 - 1 : 2011 & IEC 61439 - 2 : 2011

**Prepared By** :  
 Checked by :  
 Approved by :  
 Date :  
 1. The report issued to the customer is valid only for the test items specified in the report.  
 2. This report cannot be reproduced without the written permission of ERDA.  
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For enquiries of SIEPAN 8PU low voltage switchboards write to our Licensed Partners:

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SGR-05PC-1213

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