

CONTROL SYSTEMS

Electrical Panels Solutions With SIMOPRIME & SIVACON



SIEMENS Technology Partner

SIMOPRIME
SIVACON
Technology partner

SIEMENS
Ingenuity for life

INTRODUCTION

Founded based on its predecessors and partners being a part of Devash group DCS was established as solution provider in electrical market.

Strengthen with the partnership of the largest enterprise in electrical solutions Siemens in Medium and low voltage switchgears.

With the vast range of products from Siemens DCS is able to cover all the fields in the market using SIMOPRIME switchgears for Medium voltage solutions & SIVACON switchgears for low voltage solutions

All of these products comply with the IEC and all are type tested Panels complying as well as with the Egyptian code and successfully performed the test in the high voltage lab.



INTRODUCTION

Our goal to be recognized as one of the leaders in providing Value Added Services & Solutions for the energy sector.

Our Mission is to achieve the reputation of a quality, high standard & reliable solution & service Provider Company in the low & medium voltage solutions.

Our Vision is to achieve 100% customer satisfaction by delivering quality products and services at an affordable cost.

Our keys for development:

- Desire for Excellence
- Trust and confidence build-up
- Innovation
- Transparency
- Teamwork

We believe in

- Motivation
- Collective responsibility and leadership
- Professionalism and ethics
- Adding values to our client needs



OUR PRODUCTS

Medium voltage solution

SIMOPRIME
SIMOPRIME A4
SF6-RMU
AIR RMU
KIOSK

Low voltage solution

SIVACON Type Tested Switchboard
SIVACON MCC Switchboard
Distribution Panel Flush And Wall Mounted
Pillars
Cofrees

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SIMOPRIME



SIMOPRIME

SIMOPRIME switchgear is type-tested for indoor installation according to IEC 62271-200 With 12kV main voltage and has always been a synonym for maximum personal and operational safety as well as local added value.



SIMOPRIME Benefits

- Ensures peace of mind
- Increases productivity
- High Stability
- Easy Installed
- Low Cost
- Saves Lives

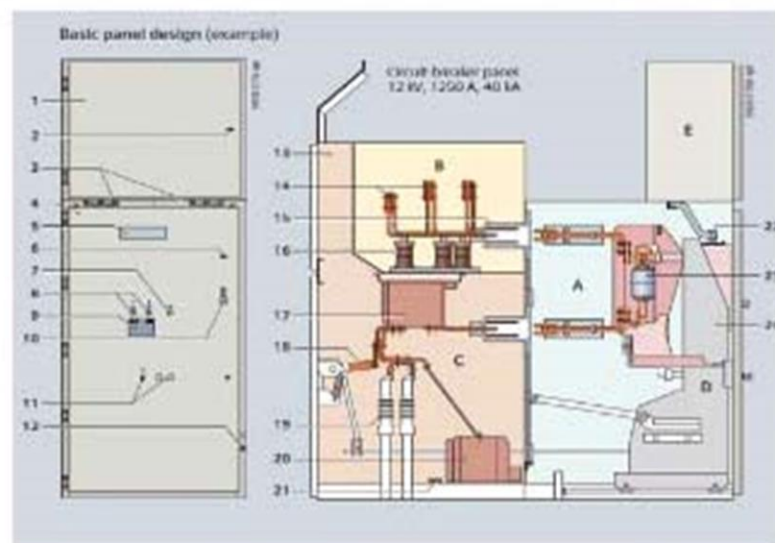
SIMOPRIME

SIMOPRIME Data Sheet



Technical Data	12kV Partition
Rated voltage	12 kV
Rated frequency	50/60 Hz
Rated short-duration power-frequency withstand voltage	28 kV
Rated lightning impulse withstand voltage	75 kV
Rated short-time withstand current, 3 s	40 kA
Rated peak withstand current at 50/60 Hz	100/104 kA
Rated short-circuit breaking current	40 kA
Rated short-circuit making current at 50/60 Hz	100/104 kA
Rated normal current of busbar	3600 A
Rated normal current of feeders	
I. with circuit-breaker	3600
II. with vacuum contactor	400
ARC Classification	
I. Front	Type A
II. Rear	Type A
III. Lateral	Type A
ARC Test Current (kA)	25/31.5/40
ARC Duration (s)	0.1/1.0

SIMOPRIME



SIMOPRIME Panel Design

- | | |
|---|--|
| 1 Door of low-voltage compartment | 10 Door handle |
| 2 Opening for locking or unlocking the low-voltage compartment door | 11 Openings for switching device truck operation |
| 3 Option: Capacitive voltage detecting system for feeder and busbar | 12 Opening for earthing-switch operation |
| 4 High-voltage door | 13 Pressure relief duct |
| 5 Inspection window for checking the switching device truck | 14 Busbars |
| 6 Opening for locking or unlocking the high-voltage door | 15 Bushings |
| 7 Opening for mechanical charging of circuit-breaker closing spring | 16 Post insulators |
| 8 Openings for manual operation (ON/OFF) of the circuit-breaker | 17 Block-type current transformer |
| 9 Inspection window for reading the indicators | 18 Option: Make-proof earthing switch |
| | 19 Cable sealing ends |
| | 20 Option: Voltage transformer |
| | 21 Earthing busbar |
| | 22 Low-voltage plug connector |
| | 23 Vacuum interrupters |



SIMOPRIME A4



SIMOPRIME A4

SIMOPRIMEA4 switchgear is type- tested for indoor installation according to IEC 62271-200 With 24kV main voltage and has always been a synonym for maximum personal and operational safety as well as local added value.



SIMOPRIME A4 Benefits

- Ensures peace of mind
- Increases productivity
- High Stability
- Easy Installed
- Low Cost
- Saves Lives

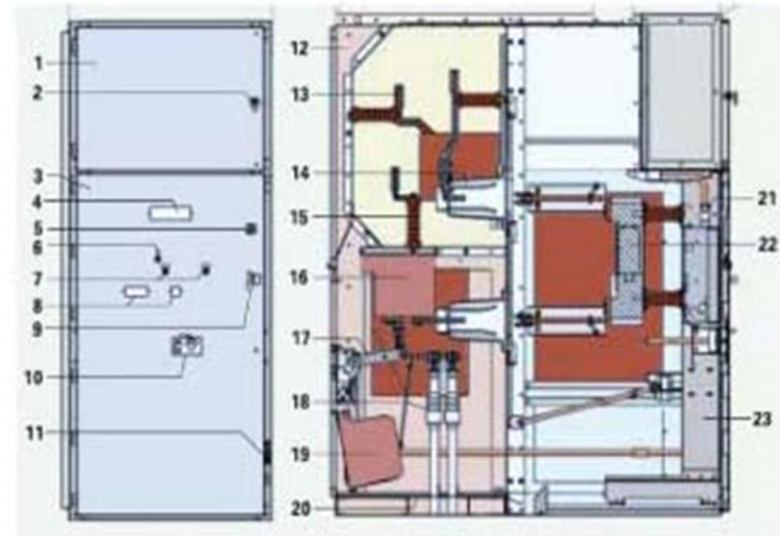
SIMOPRIME

SIMOPRIME Data Sheet



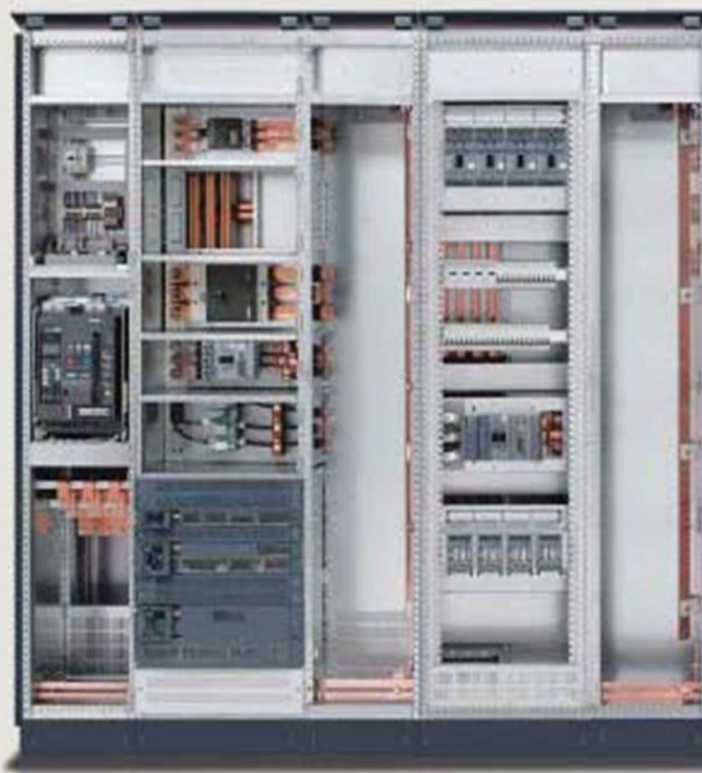
Technical Data	24kV Partition
Rated voltage	24 kV
Rated frequency	50/60 Hz
Rated short-duration power-frequency withstand voltage	50 kV
Rated lightning impulse withstand voltage	125 kV
Rated short-time withstand current, 3 s	25 kA
Rated peak withstand current at 50/60 Hz	63 kA
Rated short-circuit breaking current	25 kA
Rated short-circuit making current at 50/60 Hz	63 kA
Rated normal current of busbar	2500 A
Rated normal current of feeders	
I. with circuit-breaker	2500
II. with vacuum contactor	As Per Fuse
ARC Classification	
I. Front	Type A
II. Rear	Type A
III. Lateral	Type A
ARC Test Current (kA)	25
ARC Duration (s)	1.0

SIMOPRIME A4



SIMOPRIME A4 Panel Design

- | | |
|---|--|
| 1 Door of low voltage compartment | 9 Door handle |
| 2 Opening for locking or unlocking the low voltage compartment door | 10 Openings for switching device truck operation |
| 3 High-voltage door of switching device compartment | 11 Opening for earthing-switch operation |
| 4 Inspection window for checking the switching device truck | 12 Pressure relief duct |
| 5 Opening for locking or unlocking the high-voltage door | 13 Busbars |
| 6 Opening for mechanical charging of circuit-breaker closing spring | 14 Bushings |
| 7 Openings for manual operation (ON/OFF) of the circuitbreaker | 15 Post insulators |
| 8 Inspection window for reading the indicators | 16 Block-type current transformer |
| | 17 Option: Make-proof earthing switch |
| | 18 Cable sealing ends |
| | 19 Option: Voltage transformer |
| | 20 Earthing busbar |
| | 21 Low-voltage plug connector |
| | 22 Vacuum interrupters |
| | 23 Switching device truck |



SIVACON S8 – simple integration of low-voltage power distribution components

	3PWL air circuit breakers	3PWL molded case circuit breakers
Function	<ul style="list-style-type: none"> • People and plants protected against over-load and short circuit 	<ul style="list-style-type: none"> • High level of personnel and plant safety • Integrated measuring functions
Special features	<ul style="list-style-type: none"> • Numerous sizes permit flexible use • Fast removal and withdrawal design for fast and easy maintenance • Comprehensive accessories 	<ul style="list-style-type: none"> • High breaking capacity with compact design • Superior selectivity properties • Comprehensive accessories for flexible function expansion
Communication capability	<ul style="list-style-type: none"> • Early fault detection thanks to connection to higher level control systems 	<ul style="list-style-type: none"> • Supports all common communication options; transparency of switching status and energy flows



	3PWL fuse switch disconnectors	3PWL fuse switch disconnectors	3PWL switch disconnectors with fuses
Function	<ul style="list-style-type: none"> • Load switching and disconnecting in a single system 	<ul style="list-style-type: none"> • Reliably protect people and plants 	<ul style="list-style-type: none"> • Reliably protect people and plants
Special features	<ul style="list-style-type: none"> • Fast fuse tripping characteristic to prevent damage to plants and machines • Wide range of connection options 	<ul style="list-style-type: none"> • Compact design requires very little space • Fast, safe installation • Switching position indicator and fuse monitoring integrated for monitoring to ensure plant availability 	<ul style="list-style-type: none"> • Compact design requires very little space • Easy to replace in-line disconnectors • High switching capacity
Communication capability			

SF6



SF6

SF6 RMU is factory assembled, type-tested for indoor installation acc. to IEC 62271-200 up to 24 kV

SF6



Technical Data

SF6 Data Sheet

[illegible]



Kiosk

Manufacturing complete Kiosk up to 2MVA according to EEA requirements and customer requirements

These Kiosks are typically installed in locations accessible to the public and ensure protection for all people according to specified service conditions.



AIR RMU

AIR-RMU is complete manufacturing according to EEA requirements, up to 24KV.

Compact and separate panels housing type with measurement devices for complete work according approval from electrical company





SIVACON

Whether in industry, infrastructure, or buildings: Each environment is dependent on a reliable power supply. Which is why products and systems featuring maximum safety and optimum efficiency are in demand. This comprehensive portfolio for low-voltage power distribution and electrical installation technology covers every requirement – from switchgear to the socket as well as local added.



SIVACON

Maximum safety and attractive design are combined in an efficient solution: with SIVACON S8, the new generation of switchboards for consistent and simple power distribution in non-residential and industrial buildings as well as in the process industry up to 7000 A.



SIVACON

SIVACON Data



Rated operational voltage U _e	Main circuit	up to 690 V (fn 50 Hz)
Clearance and Creepage Distance	Rated impulse withstand voltage (U _{imp})	8 kV
	Rated Operating Voltage (U _i)	Up to 690 V
	Rated insulation voltage (U _i)	Up to 1,000 V 50/60 Hz
	Degree of pollution	3
Main busbars, horizontal	Rated current	up to 7,010 A
	Rated peak withstand current I _{pk}	up to 330 kA
	Rated short-time withstand current I _{sw}	up to 150 kA, 1s
Rated currents of devices	Circuit Breaker	up to 6300 A
	Cable Feeders	up to 6300 A
	Motor Feeders	up to 250kW
Internal separation	IEC 61439-2	up to Form 4
	BS EN 61439-2	
IP degree of protection	In accordance with IEC 60529	Ventilated up to IP43 Non Ventilated IP54
	In accordance with IEC 62262	up to IK10
Dimensions	Height (without base)	2,000, 2,200 mm
	Height of base	100, 200 mm
	Panel width	200, 400, 600, 800, 850, 1,000, 1,200, 1,400
	Depth (single front)	500, 600, 800, 1,000, 1,200 mm



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CERTIFICATES



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