



# **MV METALCLAD**

SWITCHGEARS



**EPE**

EPE Switchgear (M) Sdn Bhd

054290-D


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The values below are given for normal operating condition as defined in IEC 60298, IEC 60694, IEC 62271-100 / 200

Switchgear Model		12A20	12A25
Rated voltage	kV	12	12
Rated frequency	Hz	50	50
Rated insulation level			
-Power frequency withstand voltage/min	kV	28/32	28/32
-Lightning impulse withstand voltage (peak)	kV, 1.2/50 $\mu$ s	75/85	75/85
Rated normal current of Busbar			
	A	800/1250/2000	
Rated short time withstand current	kA/3s	20	25
Rated peak withstand current	kA	50	63
Standard degree of protection (1)			
• Enclosure		4X	
• Compartment		3X	
Dimension			
• Width	mm	600, 800, (2000A)	
• Depth	mm	2200,2250 (with PT)	
• Height	mm	2300	



Other values are available on request.

# EPE 12A20 / 25

## 12kV METALCLAD SWITCHGEAR



Other values are available on request.

Circuit Breaker Model		VFT-12
Rated voltage	kV	12
Rated current	A	630/1250/2000
Rated frequency	Hz	50
Rated insulation level		
-Power frequency withstand voltage	kV/ 1 min	28/32
-Lightning impulse withstand voltage	kV, 1.2/50 $\mu$ s	75/85
Rated short circuit breaking current		
	kA, rms	50/63
Rated short circuit withstand current		
	kA/3s	20/25
Rated short circuit making current (peak)		
	kA	50/63
Mechanical endurance		
		10,000
Rated operating sequence/duty		
		0-0.3s-CO-3min-CO
Rated closing time		
	ms	<60
Rated opening time		
	ms	<50
Rated breaking time		
	ms	<60
Standard trip/close supply (1)		
	Vdc	30/110
Standard motor charging supply (2)		
	Vdc (Vac)	30/110(240 Vac)

### GENERAL DESCRIPTION

- Indoor air insulated metalclad switchgear.
- Vacuum circuit breaker is mounted on truck for horizontal withdrawal and isolation.
- Integral fault making earthing switch, class A on the circuit side. Busbar earthing truck is optional.
- Mechanical interlocks are provided to safeguards against maloperation.
- Design type tested to IEC 62271-100/200, IEC 60298, IEC 60056, IEC 60694

The values below are given for normal operating condition as defined in IEC 60298, IEC 60694



Switchgear Model	EPE 10D	
Rated voltage	kV	12
Rated frequency	Hz	50
Rated insulation level		
-Power frequency withstand voltage/min	kV	28
-Lightning impulse withstand voltage (peak)	kV, 1.2/50 $\mu$ s	50
Rated normal current in Busbar		
	A	800/1250/2000
Short time withstand current	kA/3s	25
Peak withstand current	kA	63
Standard degree of protection (1)		
• Enclosure		3X
• Compartment		2X
Dimension		
• Width	mm	700
• Depth	mm	1950
• Height	mm	2400

Other values are available on request.



# 10D

## 12kV METALCLAD SWITCHGEAR

Circuit Breaker Model	VFT-12D	
Rated voltage	kV	12
Rated current	A	630/1250/2000
Rated frequency	Hz	50
Rated insulation level		
-Power frequency withstand voltage	kV/ 1 min	28
-Lightning impulse withstand voltage	kV, 1.2/50 $\mu$ s	75
Rated short circuit breaking current		
	kA, rms	25
Rated short circuit withstand current	kA/3s	25
Rated short circuit making current (peak)	kA	63
Mechanical endurance	10,000 times	
Rated operating sequence/duty	0-0.3s-CO-3min-CO	
Rated closing time		
	ms	60
Rated opening time		
	ms	50
Rated breaking time		
	ms	60
Standard trip/close supply (1)		
	Vdc	30/110
Standard motor charging supply (2)		
	Vdc (Vac)	30/110(240 Vac)



Other values are available on request.

## CUBICLE

The cubicle is an earthed, metallic enclosure which is fully metalclad as defined in IEC 60298. The cubicle is divided into the following compartments which are separated by metallic partitions:

- Busbars
- Circuit breaker
- Cables, earthing switch and instrument transformers

- Low voltage auxiliary equipment when required

Each medium voltage compartment is provided with a pressure relief flap.

The standard degree of protection for the enclosure is IP4X and for the partitions is IP3X. Other values are available on request.



The values below are given for normal operating condition as defined in IEC 60298, IEC 60694

Switchgear Model		24A25
Rated voltage	kV	24
Rated frequency	Hz	50
Rated insulation level		
-Power frequency withstand voltage/min	kV	50
-Lightning impulse withstand voltage (peak)	kV, 1.2/50 $\mu$ s	125
Rated normal current in Busbar		
	A	1250/2000
Short time withstand current	kA/3s	25
Peak withstand current	kA	62.5
Standard degree of protection (1)		
• Enclosure		1P3X
• Compartment		1P2X
Dimension		
• Width	mm	900, 1100 (2000A panel)
• Depth	mm	3000, 3500 (with PT)
• Height	mm	2350



Other values are available on request.



# 24A25

## 24kV METALCLAD SWITCHGEAR



Other values are available on request.

Circuit Breaker Model		VJ 22
Rated voltage	kV	24
Rated current	A	630/1250/2000
Rated frequency	Hz	50
Rated insulation level		
-Power frequency withstand voltage	kV/ 1 min	50
-Lightning impulse withstand voltage	kV, 1.2/50 $\mu$ s	125
Rated short circuit breaking current		
	kA, rms	25
Rated short circuit withstand current		
	kA/3s	25
Rated short circuit making current (peak)		
	kA	62.5
Mechanical endurance		
	10,000 times	
Rated operating sequence/duty		
	0-0.3s-CO-3min-CO	
Rated closing time		
	ms	50
Rated opening time		
	ms	50
Rated breaking time		
	ms	70
Standard trip/close supply (1)		
	Vdc	110
Standard motor charging supply (2)		
	Vdc (Vac)	110

### Vacuum Circuit Breaker

All control and indicating devices are located on the front of the circuit breaker unit. These include manual close/open knob, manual charging slot, position switch, operation counter, close/open indicator, spring charged and discharged indicator.

The circuit breaker is mounted on truck for horizontal withdrawal and isolation. Both the 'service' and 'isolate/test' positions are within the compartment.

Safety shutters are provided within the circuit breaker compartment. These automatic safety shutters cover the busbars and feeder spouts when the circuit breaker is at the 'isolate/test' position. They can be padlocked in the closed position if so desired and kept open for testing and maintenance purposes by means of manually operated catches, which in turn are self cancelling when the circuit breaker is returned to the unit.

The values below are given for normal operating condition as defined in IEC 60298, IEC 60694



Switchgear Model	36A25	
	Single Bus	Double Bus
Rated voltage	kV	36
Rated frequency	Hz	50
Rated insulation level		
-Power frequency withstand voltage/min	kV	70
-Lightning impulse withstand voltage (peak)	kV, 1.2/50 $\mu$ s	170
Rated normal current in Busbar	A	1250/2000
Short time withstand current	kA/3s	25
Peak withstand current	kA	62.5
Standard degree of protection (1)		
Enclosure		1P3X
Compartment		1P2X
Dimension		
Width	mm	1100
Depth	mm	3650
Height	mm	2150

Other values are available on request.



# 36A25

## 36kV METALCLAD SWITCHGEAR

Circuit Breaker Model	VJ 32	VJ 32D
Rated voltage	kV	36
Rated current	A	800/1250/2000
Rated frequency	Hz	50
Rated insulation level		
-Power frequency withstand voltage	kV/ 1 min	70
-Lightning impulse withstand voltage	kV, 1.2/50 $\mu$ s	170
Rated short circuit breaking current	kA, rms	25
Rated short circuit withstand current	kA/3s	25
Rated short circuit making current (peak)	kA	62.5
Mechanical endurance	10,000 times	
Rated operating sequence/duty	0-0.3s-CO-3min-CO	
Rated closing time	ms	60
Rated opening time	ms	50
Rated breaking time	ms	70
Standard trip/close supply (1)	Vdc	30/110
Standard motor charging supply (2)	Vdc	30/110(240 Vac)



Other values are available on request.

### Safety Interlocks

- VCB cannot be engaged or withdrawn unless it is open.
- VCB can only be closed or opened if it is fully engaged or isolated. (not in-between)
- VCB cannot be engaged if the control plug is removed.
- VCB cannot be engaged when the earthing switch is closed and vice-versa.
- Key interlocks are provided if required (optional).





# 12kV AMS METALCLAD SWITCHGEAR



## Description

Rated voltage	kV	7.2/12/15/17.5
Rated Frequency	Hz	50/60
Rated insulation level		
-Power frequency withstand voltage/min	kV	42
-Lightning impulse withstand voltage (peak)	kV	75/95
Rated normal current in Busbar		
Rated normal current in Busbar	A	630/1250/1600/2000/2500/3150/4000
Short time withstand current	A	630/1250/1600/2000/2500/3150/4000
Peak withstand current	kA	50/63/80/125/130
Standard degree of protection (1)		
Enclosure		4X
Compartment		2X
Dimension		
Width	mm	650 (800,1000)
Depth	mm	2250
Height	mm	1400

IEC 62271-100/200

\* Forced cooling ventilation is required

\*\* DC Resistance of current transformer



# 12kV VEP Pole Vacuum Circuit Breaker

## Circuit Breaker Model

Rated voltage	kV	7.2/12/15/17.5
Rated current	A	630/1250/1600/2500/3150/4000
Rated frequency	Hz	50/60
Rated insulation level		
-Power frequency withstand voltage	kV/ 1 min	42
-Lightning impulse withstand voltage	kV, peak	75/95
Rated short circuit breaking current		
Rated short circuit breaking current	kA, rms	20/25/31.5/40/50
Rated short circuit withstand current	kA/4s	20/25/31.5/40/50
Rated short circuit making current (peak)	kA	50/63/80/125/130
Electrical endurance		274 (Class E2 in accordance with IEC 62271-100 and GB 1984-2003)
Rated operating sequence/duty		O-0.3s-CO-180s-CO(up to 40kA) O-0.3s-CO-180s-CO(50kA)
Rated closing time	ms	35-75
Rated opening time	ms	25-35
Rated breaking time	ms	40-50
Rated auxiliary control voltage	V	AC110/220;DC 110/220



# 24kV AMS METALCLAD SWITCHGEAR



## Description

Rated voltage	kV	24
Rated frequency	Hz	50/60
Rated insulation level		
-Power frequency withstand voltage/min	kV	50/65
-Lightning impulse withstand voltage (peak)	kV	125
Rated normal current in Busbar		
Short time withstand current (4s)	A	630/1250/1600/2000/2500
Peak withstand current	kA	20/25/31.5
Standard degree of protection (1)		
Enclosure		1P4X
Compartment		1P2X
Dimension		
Width	mm	800 (1000)
Depth	mm	1680
Height	mm	2250

IEC 62271-100/200

\* DC Resistance of current transformer



# 24kV VEP Pole Vacuum Circuit Breaker

## Circuit Breaker Model

Rated voltage	kV	24
Rated current	A	630/1250/1600/2000/2500
Rated frequency	Hz	50
Rated insulation level		
-Power frequency withstand voltage	kV/ 1 min	50/65
-Lightning impulse withstand voltage	kV, peak	125
Rated short circuit breaking current		
Rated short circuit withstand current	kA, rms	20/25/31.5
Rated short circuit making current (peak)	kA/4s	20/25/31.5
Electrical endurance		
Rated operating sequence/duty	kA	50/63/80
274 (Class E2 in accordance with IEC 62271-100 and GB 1984-2003)		
Rated closing time		
Rated opening time	ms	O-0.3s-CO-180s-CO
Rated breaking time	ms	O-0.3s-CO-180s-CO
Rated auxiliary control voltage		
	V	50
		70
		AC110/220;DC 110/220



# EPE 40.5kV AMS METALCLAD SWITCHGEAR



## Description

Rated voltage	kV	33/36/40.5
Rated frequency	Hz	50/60
Rated insulation level		
-Power frequency withstand voltage/min	kV	95
-Lightning impulse withstand voltage (peak)	kV	185
Rated normal current in Busbar		
Short time withstand current (4s)	A	630/1250/1600/2000/2500/3150
Peak withstand current	kA	25/31.5
Standard degree of protection (1)		
Enclosure		1P4X
Compartment		1P2X
Dimension		
Width	mm	1200
Depth	mm	2500
Height	mm	2400

IEC 62271-100/200

\* Forced cooling ventilation is required

\*\* DC Resistance of current transformer

# EPE 40.5kV VEP Pole Vacuum Circuit Breaker

## Circuit Breaker Model

Rated voltage	kV	33/36/40.5
Rated current	A	630/1250/1600/2000/2500/3150
Rated frequency	Hz	50/60
Rated insulation level		
-Power frequency withstand voltage	kV/ 1 min	95
-Lightning impulse withstand voltage	kV, peak	185
Rated short circuit breaking current		
Rated short circuit withstand current	kA, rms	25/31.5
Rated short circuit making current (peak)	kA/4s	25/31.5
Electrical endurance	kA	63/80
Rated operating sequence/duty		
Rated closing time		274 (Class E2 in accordance with IEC 62271-100 and GB 1984-2003)
Rated opening time		O-0.3s-CO-180s-CO
Rated breaking time		O-0.3s-CO-180s-CO
Rated closing time	ms	55-80
Rated opening time	ms	25-40
Rated breaking time	ms	60
Rated auxiliary control voltage	V	AC 110/220;DC 110/220



## Switchgear Mode

HICLAD-30GA

Switchgear type	BGA-36
Applicable standards	IEC 60298, BS 5227
Classification of switchgear	SF <sub>6</sub> -insulated metal enclosed
Service condition	<ul style="list-style-type: none"> <li>• Altitude &lt;1000m</li> <li>• Ambient temperature - Max. 40°C, Min. -5°C</li> <li>• Relative humidity - 24 Hrs, average &lt;95%</li> <li>• -1 month average &lt;90%</li> </ul>
Rated voltage (kV)	36
Rated current (A)	1250, 2000
Rated frequency (Hz)	50/60
Insulation level	
- 1 min power frequency (kV rms)	70
- 1.2x50 μs impulse (kV peak)	170
Rated short-time withstand current (kA-sec)	25-3
Degree of protection	
HV compartment	IP65
LV compartment	IP40
Operating box	IP30
Gas pressure	
Rated pressure (MPa)	0.08
Low pressure alarm stage-1 (MPa)	0.06
Low pressure alarm stage-2 (MPa)	0.05
High pressure (MPa)	0.12
Operation of 3-position isolator	Motorized/manual
Auxiliary voltage	
Control circuit (Vdc)	110
Motor circuit (Vac/Vdc)	240/110

## Design Concept

The standard factory-assembled switchgear developed on the basis of a modern design concept and technology with SF<sub>6</sub> gas insulation.

The HICLAD-30GA is fully type-tested, indoor type, 36 kV metal-clad switchgear, factory assembled under rigorous quality control and tests.



# HICLAD 30GA

## 36kV COMPACT GAS SWITCHGEAR

### Vacuum Circuit-Breaker (VCB)

VCB model	VGA-32
Applicable standards	IEC 62271-100
Rated voltage (kV)	36
Rated current (A)	1250, 2000
Rated frequency (Hz)	50/60
Insulation level	
- 1 min power frequency (kV rms)	70
- 1.2x50 μs impulse (kV peak)	170
Rated short circuit breaking current (kA)	25
Rated short circuit making current (kA peak)	63
Rated short-time withstand current (kA-sec)	25
Operating duty	0-0.3sec-CO-3min-CO 0-0.3sec-CO-3min-CO
Rated closing time (sec)	0.05
Rated opening time (sec)	0.05
Rated break time (sec)	0.07
Rated TRV for terminal fault	
Rate of rise (kV/μs)	0.57
TRV peak voltage (kV)	62
Type of operating mechanism	Motor charged spring stored energy
Tripping system	Shunt trip
Spring charging motor	
Auxiliary voltage (Vac/Vdc)	240/110
Output (W)	60
Current (A)	1.5A 230 Vac
Closing coil	
Auxiliary voltage (Vdc)	110
Current (A)	5A
Tripping coil	
Auxiliary voltage (Vdc)	110
Current (A)	6A

It is designed to accommodate high-performance vacuum circuit breaker (VCB) which has been designed, manufactured and tested in accordance with IEC 56 and BS 5311.

The switchgear itself conforms to IEC 60298 and BS 5227, and the all primary components employed therein are in accordance with the relevant IEC and/ or BS Standards. The modern production process has been introduced for the manufacture of main components, primarily in sheet-metal forming and gas-tight tank, the technique of gas tightness and jointing frameworks, surface protection and so on.

SF<sub>6</sub> gas insulation used in conjunction with vacuum circuit-breaker (VCB) has set new standard with respect to:

- Operational reliability and availability
- Reduced maintenance work
- Safety for operators
- Free from environmental pollution
- Reduced dimensions and less space requirements
- Capability of current interruption with zero gas pressure (at atmospheric pressure)
- Motorised Busbar Live Transfer Disconnectors are provided for double Busbar switchgears

# EPE 40.5kV FEP

## SF<sub>6</sub> Gas Circuit Breaker



### Description

Rated voltage	kV	40.5
Rated current	A	630/1250/1600/2000/2500
Rated frequency	Hz	50/60
Rated insulation level		
- Power frequency withstand voltage/min	kV	95
- Lightning impulse withstand voltage (peak)	kV	185
Rated short circuit breaking current	kA	25/31.5
Rated short time withstand current (4s)	kA	25/31.5
Rated short circuit making current (peak)	kA	63/80
Rated peak value withstand current (peak)	kA	63/80
Rated operating sequence		O-0.3s-CO-180s-CO O-180s-CO-180s-CO
Rated auxiliary control voltage	V	AC 110/220;DC 110/220
Mechanical endurance	No. of times	10000
Annual leakage rate	%/Y	< 0.1
SF <sub>6</sub> rated pressure	MPa	0.35 ± 0.02
SF <sub>6</sub> alarm pressure	MPa	0.28 ± 0.01

## ROSSS-ROKSS Units

The ROSSS consists of three switch units, whereas the ROKSS is a switch-fuse unit, combined with two switch units. In both units the switch and/ or switch fuses are mounted side by side in common welded steel tanks.

On both units, the tank is fitted with four hinged access covers. The left-hand covers the ROKSS gives access to the fuses while the other covers on both the ROSSS and ROKSS permit contact or cable testing on the circuit switches and switch-fuse where fitted.

In addition to the normal non-extensible and extensible ROKSS units a direct connected tee-off switch-fuse version is available for mounting directly onto a transformer. The flange lines up with a standard transformer flange.

### Technical Specification

Rated voltage	Up to 15.5 kV	
Rated Insulation Level	Up to 110 kV	
- 1.2/50 Wave-Form	Up to 50 kV RMS	
- Power Frequency	Up to 50 kV RMS	
Rated normal current	630 A	
- Switch	630 A	
- Busbars	630 A	
Rated Breaking Current - Oil switches only	630 A at 0.7 pf	
Maximum Fuse Rating	254 mm	100 A at 6.6 kV
		80 A at 11 kV
	359 mm	150 A at 6.6 kV
		120 A at 11 kV
		80 A at 15.5 kV
Fused switches to IEC 420		
Fault Ratings (Lines and Earth Switches)		
- ASTA certified to IEC265, BS5463, and complies also with AS1025	12 kV	20 kA
Additional Proving Tests	15.5 kV	21.9 kA RMS
- Generally in accordance with BS2631-1955, AS1025 and AS2024		3 second rating
		55.9 kA pk. make



## **EPE** OIL RING MAIN UNIT

## ROS-ROK Units

The ROS is a single switch units whereas the ROK is a single switch fuse unit.

The oil filled welded steel tank is common to both types and is fitted with two hinged access covers. The right-hand cover gives access to the circuit switch for contact inspection or cable testing. On the ROK unit the left hand cover gives access to the three oil immersed fuses.

### Technical Specification

Rated voltage	Up to 15.5 kV	
Rated Insulation Level	Up to 110 kV	
- 1.2/50 Wave-Form	Up to 50 kV RMS	
- Power Frequency	Up to 50 kV RMS	
Rated normal current	630 A	
- Switch	630 A	
- Busbars	630 A	
Rated Breaking Current - ROS only	630 A at 0.7 pf	
Maximum Fuse Rating - ROK only	254 mm	100 A at 6.6 kV
		80 A at 11 kV
	359 mm	150 A at 6.6 kV
		120 A at 11 kV
		80 A at 15.5 kV
Fused switches to IEC 420		
Fault Ratings (Lines and Earth Switches)		
- ASTA certified to IEC265, BS5463, and complies also with AS1025	12 kV	20 kA
Additional Proving Tests	15.5 kV	21.9 kA RMS
- Generally in accordance with BS2631-1955, AS1025		3 second rating
		55.9 kA pk. make



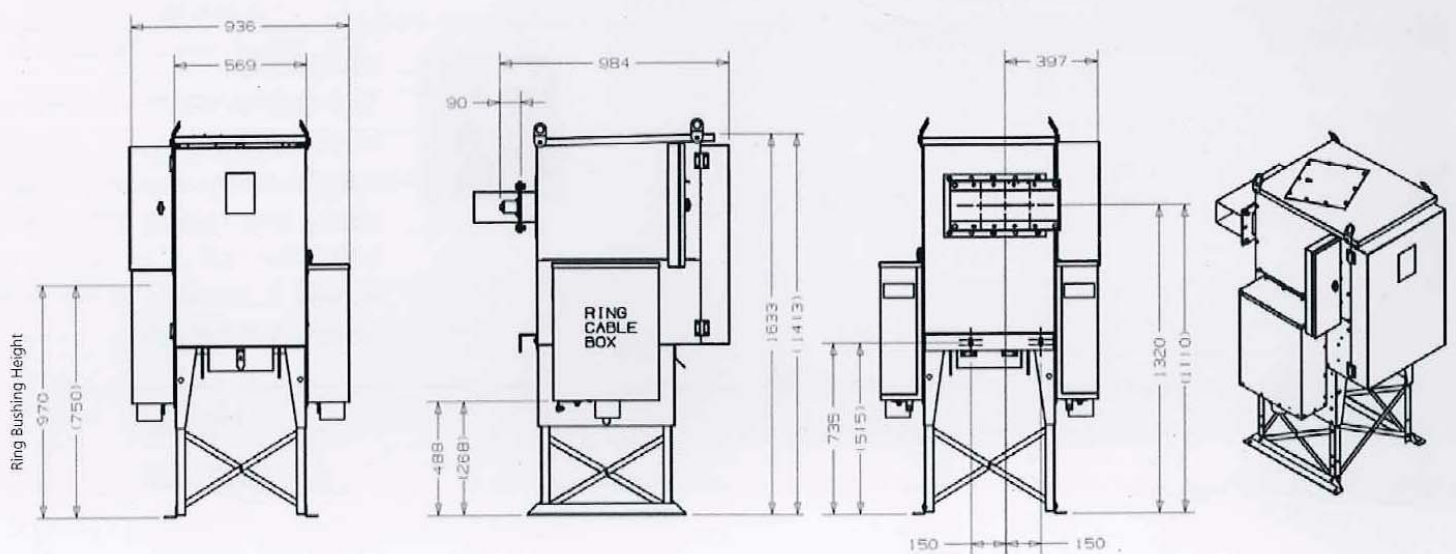
#### Design

The Sabre VRN 2a (6a) is compact SF6 insulated Vacuum Ring Main Unit (RMU). The unit can be mounted to the smallest distribution transformer or be sited in a free standing format. Designed to be used both indoors and outdoors, the unit has a long service life and requires virtually zero maintenance.

# EPE SF<sub>6</sub> RING MAIN UNIT

Under licensed by Lucy Switchgear

## SABRE VRN2a/6a



Bracketed dimensions are alternative lower height  
Dimensions in millimetres

Technical Data (rating in brackets are optimal)

	VRN2a	VRN6a
Rated Voltage	12kV (15.5kV)	12kV (15.5kV)
Impulse Withstand Voltage (kV Peak)	75kV (95kV)	75kV (95kV)
Normal Current		
Ring Switches	630A	630A
Circuit Breaker	250A	630A
Busbar	630A	630A
Short Circuit Peak Making Current		
Ring Switches	50kA	50kA
Tee-off Circuit Breaker	50kA	50kA
Short Circuit Breaking Current		
Tee-off Circuit Breaker	20kA RMS	20kA RMS
3 Second Short Time Current		
Ring Switches	20kA	20kA
Tee-off Circuit Breaker	20kA	20kA
Earth Switch Peak Making Current		
Ring Switches	50kA	50kA
Tee-off Circuit Breaker	7.9kA	50kA
Internal Arc Rating		
Freestanding	20kA 1 sec	20kA 1 sec
Transformer Mounted	20kA 1 sec in ENA Housing	20kA 1 sec in ENA Housing
Gas Pressure		
MOP	zero bar (G)	zero bar (G)
IP Rating		
Up to IP54W	Up to IP54W	Up to IP54W
Dimensions		
Height (mm)	1715, 1635 or 1415	1775, 1690 or 1470
Width (mm)	950	950
Depth (mm)	1080	1080
Weight (kg)	350	360
Weight of SF6 (kg)	1.46	1.46
Protection		
TLF - Time Limit Fuse		
Auxiliary Powered Relay		
Self Powered Relay		
Testing Standards Applicable		
IEC 62271-103		
IEC 62271-100		
IEC 62271-102		
IEC 60056		
IEC 60265-1		
IEC 60129		
IEC 60694		
IEC 60298		
ENA TS 41-36		
IEC 62271-200		

Key features

- Compact Design
- 12kV and 15.5kV
- Indoor / Outdoor application
- Mimic Diagram
- Vacuum tee off circuit breakers
- Enhanced duty, in excess of IEC requirements
- Pre-wired for motor actuation
- Fault passage indicators
- Common switching chamber
- Full ratings with zero atmospheric pressure
- Isolation in clean SF<sub>6</sub> gas

Options

Protections



All options provide transformer over current protection for phase to phase faults. Earth protection covering phase to earth faults is also available if required.

Cable Boxes



Internal arc test cable boxes are available with IEC and ENA specifications. Interlocked cable boxes are also provided as options.

Automation



The Sabre VRN2a can be pre-wired for automation. Single or double rotary actuators can be easily and rapidly fitted on site whilst the unit is in service - no access is required to the internal workings of the RMU.



**EPE Switchgear (M) Sdn Bhd**  
364290-D

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