

# Product data sheet

Specifications



## Secondary Gas Insulated Switchgear, RM6, BC unit, bus coupler by circuit breaker 630A

RM6000BC

### Main

Master Range	SeT Series
Range Of Product	RM6
Product Name	RM6
Number Of Functions	1
Device Short Name	BC
Functional Unit Family	Network coupling
Functional Unit	Circuit breaker
Type Of Extensibility	DE (double extensible)
Insulation Technology	Gas insulated switchgear
Type Of Insulating Gas	SF6
Number Of Phases	3
Network Type	AC
Type Of Installation	Indoor
Standards	IEC 62271-200:2011
Rated Voltage (Ur)	12 kV 17.5 kV 24 kV
Rated Short-Duration Power Frequency Withstand Voltage (Ud) / Common Value	50 kV
Rated Short-Duration Power Frequency Withstand Voltage (Ud) / Isolating Distance	60 kV
Rated Lightning Impulse Withstand Voltage (Up) / Common Value	125 kV
Rated Lightning Impulse Withstand Voltage (Up) / Across The Isolating Distance	145 kV
Rated Frequency (Fr)	50/60 Hz
Rated Continuous Current Of Busbars (Ir)	400 A 630 A
Rated Continuous Current (Ir)	630 A
Rated Short-Circuit Breaking Current (Isc)	12.5 kA 16 kA 20 kA 21 kA 25 kA
Rated Short-Circuit Making Current	62.5 kA 50 Hz 65 kA 60 Hz

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Rated Short-Time Withstand Current (Ik)	12.5 kA
	16 kA
	20 kA
	21 kA
	25 kA
Rated Duration Of Short-Circuit (Tk)	1 s
	3 s
Rated Peak Withstand Current (Ip)	62.5 kA 50 Hz
	65 kA 60 Hz
Filling Level For Insulation And/Or Switching (Pre Rel.)	23 kPa
Minimum Functional Level For Insulation And/Or Switching (Pme Rel.)	19 kPa
Loss Of Service Continuity Category	LSC2
Internal Arc Classification	AFL
	AFLR
Rated Arc Fault Current [Ia]	16 kA
	20 kA
Rated Arc Fault Duration [Ta]	1 s
Internal Arc Gas Evacuation	Rear exhaust
	Rear and bottom exhaust
	Bottom exhaust
Arc Fault Mitigation Device	Without
	With arc killer (I)
Partition Class	PM

## Complementary

Rated Supply Voltage Of Auxiliary And Control Circuits (Ua)	24/48/60/110/125/220 V DC
	120/230 V AC 50/60 Hz
Degrees Of Protection Provided By Enclosures (Ip Code)	IP3X (front face with operating mechanism)
	IP67 (tank with HV parts)
Degree Of Protection Of Enclosure Against External Mechanical Impacts (Ik Code)	IK07
Instrument Transformer	Low power current transformer
Voltage Presence Type	VPIS voltage presence indicating system
	VDS voltage detecting system
Classification For Number Of Mechanical Operations	M1 circuit breaker
	M0 earthing switch
Number Of Mechanical Operations	2000 operating cycles circuit breaker
	1000 operating cycles earthing switch
Rated Operating Sequence	O - 3 min - CO - 3 min - CO
Classification For Electrical Endurance	E2 circuit breaker
	E2 earthing switch
Number Of Operations At Short-Circuit Breaking Current	3
Number Of Operations At Short-Circuit Making Current	2 circuit breaker
	5 earthing switch
Type Of Operating Mechanism	CI1
Protection Relay	VIP 400
	VIP 410
Interlocking Type	Mechanical
Type Of Keylock	Flat
	Tubular

Key Interlock Type	R6 R7 R8
Mass	145 kg
Height	1142 mm
Width	632 mm
Depth	670 mm

## Environment

Product Certifications	DNV-GL Marine
Ambient Air Temperature For Operation	-25...40 °C
Ambient Air Temperature For Storage	-40...70 °C
Humidity Conditions	Average relative humidity over 24 h <= 95 % Average relative humidity over 1 month <= 90 %
Operating Altitude	<= 1000 m

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

**Eu Rohs Directive**

Not applicable, out of EU RoHS legal scope

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