

RVAC Technical Data

Item		Ratings
General		
Rated voltage	kV	24
Power frequency withstand voltage (1min)		
Phase to phase/Phase to earth	kV	50
Between isolating distance		60
Lightning impulse withstand voltage (BIL)		
Phase to phase/Phase to earth	kV	125
Between isolating distance		145
Rated frequency	Hz	50
Internal arc classification (IAC)	kA-s	AFLR 20-1
Degree of protection in service		IP3X
Degree of protection with doors/covers open		IP2X
Service continuity of the switchgear		LSC2
Application environment condition	Humidity	≤ 100%
	Temperature	-25°C ~ +50°C
Busbar system		
Rated normal current	A	630
Rated short-time withstand current	kA-s	20-3
Rated peak withstand current	kA	50
Load break switches panel		
Rated normal current	A	630
Rated short-circuit making current	kA	50
Rated short-time withstand current	kA-s	20-3
Mechanical endurance class (Load break switch)		M1 5000
Mechanical endurance class (Earthing switch)		M1 2000
Electrical endurance class (active load breaking capacity 630A)		E3
Cable-charging breaking capacity	A	40
Circuit-breakers panel		
Rated normal current	A	630
Rated breaking current	kA	20
Rated short-circuit making current	kA	50
Rated capacitive switching current class		C2
Mechanical endurance class (Circuit-breakers)		M1 2000
Mechanical endurance class (Earthing switch)		M1 2000
Electrical endurance class		E2
Rated short-time withstand current	kA-s	20-3
Mechanism type		0 - 0.3s - CO - 180s - CO
Switch-fuse combination panel		
Normal current of load-break switch	A	630
Normal current with fuses	A	80
Rated short-time withstand current of 3-position (On-Off-Earth) switch disconnecter	kA-s	20-3
Rated short-circuit making current of 3-position (On-Off-Earth) switch disconnecter	kA	50
Rated short-time withstand current of Earthing switch downstream*	kA-s	2-3
Rated short-circuit making current of Earthing switch downstream*	kA	5
Rated breaking current	kA	31.5
Rated short-circuit making current	kA	80
Rated transfer current	A	900

For others, please contact local Eaton sales representative.

*.The structure of the earthing switch downstream is to ensure the safety of the fuse replacement operation that when the fuse is blown, both sides of the fuse can be grounded at the same time. (Ground discharge is performed on the lower end of the fuse.)"

RVAC designed to IEC standards

RVAC complies with the following standards

IEC62271-1	Common specifications for high-voltage switchgear and controlgear
IEC62271-103	High-voltage switches for rated voltages above 1kV up to and including 52 kV
IEC62271-102	High-voltage alternating current disconnectors and earthing switches
IEC62271-200	A.C. metal-enclosed switchgear and controlgear for rated voltages above 1kV and up to including 52kV
IEC62271-100	High-voltage alternating-current circuit breakers
IEC62271-105	High-voltage alternating current switch-fuse combinations for rated voltage above 1kV up to and including 52kV