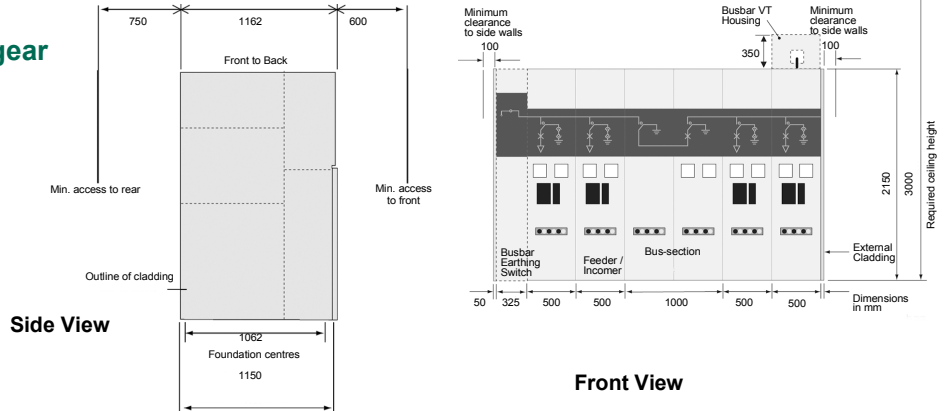


MV Switchgear Ratings & Specifications - 71

Eclipse 15kV Fixed Pattern Indoor Metalclad Vacuum Switchgear Typical General Arrangement



Rated Normal Current	A	630	1250	2000
Rated Voltage	kV	12/15	12/15	12/15
Rated Frequency	Hz	50/60	50/60	50/60
Rated BIL	kVp	75/95	75/95	75/95
Rated Power Frequency Withstand	kV 1min	28/38	28/38	28/38
Rated Short-time Withstand Current	kAms 3secs	20/25	20/25	20/25
Rated Peak Making Current	pk kA	50/62.5	50/62.5	50/62.5
Internal Arc Compliance	kA 1sec	25	25	25
Mechanical Endurance		10,000 operations	10,000 operations	10,000 operations
Degree of Protection		IP4X*	IP4X*	IP4X*

*Higher degree of protection available on request

Standards

IEC 60056, IEC 60298, IEC 60129, IEC 60255,

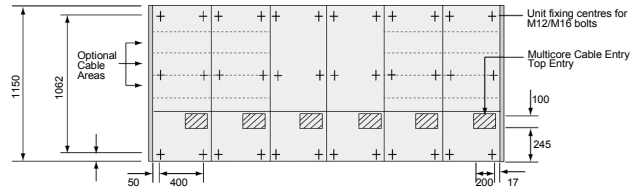
IEC 60694, EATS 50-18, EATS 41-36

Auxiliary Operating Supply

30/48/110/125V dc

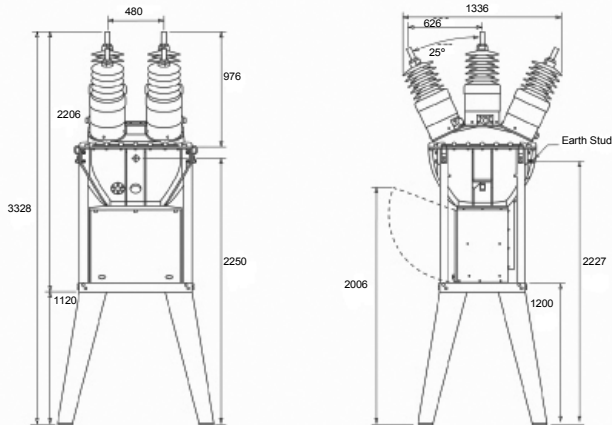
Typical weight

Range between 500kg & 650kg



Foundation Plan

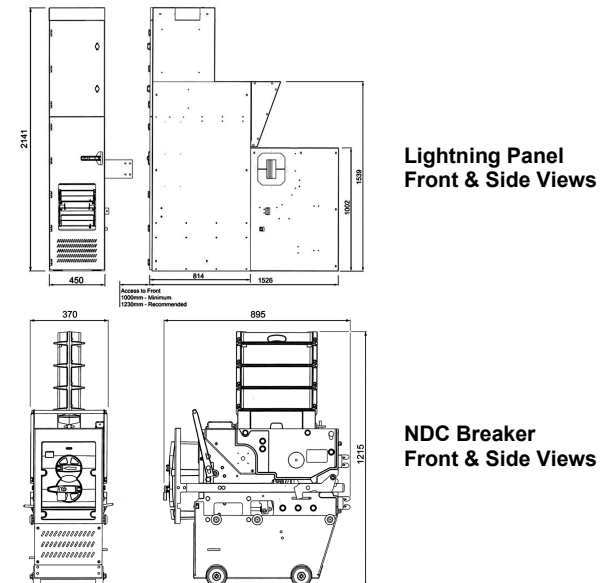
Horizon - 38kV Medium Voltage Outdoor Circuit Breaker



Maximum System Voltage	kV	38
Continuous Current	A	1250/2000
Interrupting Current	kA	25/31.5
Impulse Voltage Withstand	kV	170/200
Power Frequency Withstand Dry	kV 1min	80
Power Frequency Withstand Wet	kV 10 secs	80
Rated Gas Pressure for Above		Atmospheric
Control Voltage	V dc	110/125 (48&220 Optional)
Rated Frequency	Hz	50/60
Rated 3 sec Short-time Current	kA	25/31.5
Rated Peak Making Current	kA	65/82
Ambient Air Temperature	C	-50 - +50
Degree of Protection		IP45
Weight	Kg	700

Standards: IEC 60298, IEC 60129, IEC 60694, IEC 62271-100, EATS 41-36, EATS 50-18, ANSI C37.06, ANSI C37.09.

Lightning DC Sw/gr inc. NDC Circuit Breaker



Rated Voltage	V dc	900	1800
Rated Service Current	A	4000/6000/8000	4000/6000
Nominal Voltage	V dc	750	1500
Power Frequency Withstand Level	kV	9	9
Rated Short-circuit Current	kAp/kA	180/125	142/100
Rated Short-time Withstand Current	kAp/kA	100/71 250ms	100/71 250ms
Bi-directional Critical Current*	A	25	26
Mechanical Endurance		50,000 operations	50,000 operations
Breaking Characteristic		H	H
Rated Insulation Voltage	kV	1.8	3
Auxiliary Operating Supply	V dc	50 (other options available)	50 (other options available)
Degree of Protection		IP3X	IP3X

*As defined in BS EN 50123-2: 2003, the critical current quoted is the current with the longest arcing time. At 900V / 25A the arcing time is approximately 330ms

The circuit breaker enclosure has been subjected to an internal arc withstand test in accordance to the requirements of IEC 60694: 2002 and IEC 62271-2003
BS EN 50123-1: 2003, BS EN 50123-2: 2003, BS EN 50123-6: 2003

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