



12kV Solid Insulated Vacuum RMU

Benefits

- \checkmark Simple to use and operator friendly
- ✓ Numerous safety features
- ✓ Ultra low maintenance
- \checkmark Low cost of ownership
- ✓ Designed for NZ conditions
- \checkmark Stainless steel cabinet
- ✓ Outdoor ready
- ✓ Network reliability improvement
- ✓ Environmentally friendly



Features

 \checkmark

- Solid insulation
- ✓ Vacuum interruption
- ✓ Two switchgear types: CB and LBS
- ✓ Reduced inventory saves money
- ✓ Extensible, both sides
- ✓ Internal arc fault management
- ✓ Double skinned terminal box
- ✓ Sturdy and reliable mechanisms
- ✓ Logical mimic panel
- ✓ Open front cable box



Mechanical and Electrical Characteristics			
	LBS	СВ	
Туре	Modular O	utdoor RMU	
Insulation media	Solid Epoxy Polymer		
Interruption media	Vacuum		
Rated voltage	12kV		
Rated frequency	50/60Hz		
Rated current	6304		
Load breaking current	630A		
Short time withstand current	20kA 3s		
Short circuit making current (neak)	5264		
Short circuit breaking current		201/4	
Capacitive breaking current (single bank)	_	504 (C2)	
Line Charging Current	104		
Lightning impulse withstand, phases and ground			
Lightning impulse withstand, priases and ground			
Lighting impuse withstand, across isolating distance	95KV		
Power frequency withstand, priases and ground	32KV 1 min		
Power frequency withstand, across isolating distance	32KV 1 Min		
Internal arc classification (IEC62271-200)			
Earth Cwitch chart time with stand sumant			
Earth Switch short time withstand current			
Machanisel and wan as alassy CP, LPC, EC	52KA		
Mechanical endurance class; CB, LBS, ES	M1 (2000,1000,1000 cycles)		
Electrical endurance class; CB, LBS, ES			
Degree of protection (front covers open JEC(0E20:2012.08)			
Degree of protection (front covers open, fec60529:2013.08)			
Degree of protection (all covers closed, IEC60529:2013.08)			
Rated operating sequence (IEC 62271-100)	- Cravita e. Ch e	CO-180s-CO *	
Mechanism	Spring Charged Manual /Electric release		
Cable connections	IEC DIN 'C' 630A		
Voltage sensors / Indicator	3Ø CVD / LED Indication Unit		
	3Ø, on Bushing		
Current sensors for fault indicator (optional)	or Cable	_	
	100:1, 200:1,		
	400:1,600:1		
Fault Indicator (optional)	30 OC and EF	-	
Current sensors for protection relay (optional)		30, on Busning	
	-	100.1 200.1	
		400:1, 600:1	
Protection relay (optional)	-	Refer ADR	
Seismic rating	IEEE 693 High		
Altitude (IEC 62271-200)	<1000m		
Ambient air temperature (IEC 62271-200)	-25 to +55 °C		
Relative humidity	95%		
Maintenance	Ultra Low		
Dimensions (per module)	H1250 x W350 x D730		
Mass (per module)	204 kg	224 kg	

* Reclosing option available on request

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Release Date: May , 2020



Entec 12kV Solid Insulated Vacuum RMU Fuse Type Module

Benefits

- ✓ Simple to use and operator friendly
- ✓ Numerous safety features
- ✓ Ultra low maintenance
- ✓ Low cost of ownership
- ✓ Designed for NZ conditions
- ✓ Stainless steel cabinet
- ✓ Outdoor ready
- ✓ Network reliability improvement
- ✓ Environmentally friendly

Features

- ✓ Solid insulation
- ✓ Vacuum interruption Main Switch
- ✓ Compatible with Halo CB and LBS
- ✓ Reduced inventory saves money
- ✓ Extensible, both sides
- ✓ Internal arc fault management
- ✓ Double skinned terminal box
- \checkmark Sturdy and reliable mechanisms
- ✓ Logical mimic panel
- \checkmark Open front cable box

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Mechanical and Electrical Characteristics*			
	Main Switch (MS)	Earth / Dis- connecting Switch (ES)	
Туре	Modular Outdoor RMU Fuse Unit		
Insulation media	Solid Epoxy Polymer / Air		
Interruption media	Vacuum	Air	
Rated voltage	12kV		
Rated frequency	50/60Hz		
Rated current	630A	200A	
Load breaking current	630A	2kA / 3s	
Short time withstand current	Limited by Fuse Link		
Short circuit making current (peak)	52kA	5.2kA	
Line Charging Current	10A	-	
Cable charging current	31.5A (C1)	-	
Mechanical endurance class (IEC62271-103/102)	M1 (1000)	M0 (1000)	
Electrical endurance class	E1	E1	
Lightning impulse withstand, phases and ground	85kV		
Lightning impulse withstand, across isolating distance	85kV		
Power frequency withstand, phases and ground	32kV 1 minute		
Power frequency withstand, across isolating distance	32kV 1 minute		
Internal arc classification (IEC62271-200)	B-FLR		
Fuse link voltage rating	12 kV		
Fuse link current rating	6.3 – 200 A		
Fuse Link Length	292 mm		
Fuse Link diameter (maximum)	88 mm		
Enclosure	304 stainless steel, painted		
Degree of protection (Enclosure)	IP55		
Degree of protection (HV Terminal Box)	IP3x		
Interlocking Device	IK10		
MS Mechanism	Spring Charged Manual Release		
Cable connections	IEC DIN 'A' 200A		
Voltage sensors / Indicator	3Ø CVD / LED Indication Unit		
Seismic rating	IEEE 693 High		
Altitude (IEC 62271-200)	<1000m		
Ambient air temperature (IEC 62271-200)	-25 to +55 °C		
Relative humidity	95%		
Maintenance	Ultra Low		
Dimensions (per module)	H1250 x W600 x D730		
Mass (per module)	300 kg		

* Preliminary data

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Available Halo Modules





VT Ρ F D С V

C = Cable SwitchP = Pre-Charged

- V = Circuit BreakerVT= Metering Unit
 - F = Fuse ModuleS= Scada Cabinet
- **D**= Direct Connect

