GE Lighting & Industrial



New Compact Gas Insulated Ring Main Unit





SecoRMU Series Switchgear General

The traditional type of 12kV distribution adopts mainly radiation style to lay out power supply system, the combination style of radiation type and tree-style as a supplement. As a result of multi-users to connect to one power cord like letters Ts, any occurrence such as power line maintenance or failure will lead to all users' power off that are connecting on the power line of electricity. It is so poor reliability. Ring type and multi-loop distribution of regional opening and closing station and secondary substation model is widely used in the current to assign the power load to each terminal. The 12kV box-tupe ring main unit can act its functions as the branch, subsection and sub-connection so has been used very widely.

SecoRMU series of ring main unit is one of such kind of SF6 gas insulated metal-enclosed switchgear. All kinds of functional units are made of such main units as load-break switch. unit, switch &fuse unit, the unit with vacuum circuit breaker and etc. They are with the completely enclosured, all modular, and can be any combination of the characteristics of the extendibility freely, in order to provide customers a series of compact, safe, reliable. high performance and real ease of maintenance-free products. They are widely used in transformation of urban and rural lines. power distribution stations, wind power generation, steel, petrochemicals, highways, docks, such as industrial enterprises, as well as municipal construction, commercial buildings, such as civil construction area.

Safe and reliability

SecoRMU adopts SF6 gas with a strong electronegativity and excellent dielectric insulation characteristics, and the insulation



strength in sulphur hexafluorideis is as about 2-3 times as in air in the condition of uniform electric field. SF6 is non-toxic, tasteless, and non-flammable, and has excellent arc-control performance and cooling characteristics, all that makes it impossible for load switches to extinguish its electric arc quickly and reliably after breaking its current.



Small and compact

Excellent dielectric insulation characteristics of SF6 gas makes it impossible for SecoRMU to be smaller, less weight, more compact to save a lot of place and area for customers, as well as excellent performance and reliability.

Advanced and flexible

SecoRMU series of ring main unit adopts international advanced design concepts and production-test methods so that the whole series of simple structure, flexible operation, reliable interlock, together with the use of advanced sensor technology and the latest microprocessor-based protection devices, we can provide a variety of technical solutions to meet different user requirements.

Modular design/All enclosure/Extendible

SecoRMU series of ring main unit is a new generation of compact modular switchgear. Their gas boxes are made of 3mm thick stainless steel plate by laser welding. Circuit breakers, load switches and bus bars as well as all high-voltage portions, are all sealed in the gas boxes filled with SF6 gas. There are

two modular structures, individual unit and common box unit all of this series products. Each module has its own separate functions and respective metal shell, and can be extended left side or right side freely. Facility and reliability of splicing between SecoRMU series of ring main units and cables ensure that each of the unit of different solutions should be connected safely. Cables round into the units are also with a simple connection, fast and reliable.

Environmental adaptability

SecoRMU series of ring main unit are designed gas-tight structure, one conductive system is fully independent to operate in the environment filling with SF6 gas, therefore are not subject to external environment impact (such as Gel, dirty, salt spray, small animals and chemicals, etc.). Truly maintenance-free, applies to all kinds of bad places, and have a strong waterproof ability, gas tank and fuse tank are up to IP67 class of protection.

SecoRMU series provide users with a reliable electricity system, as well as economical operation and maintenance costs

Environmental Conditions

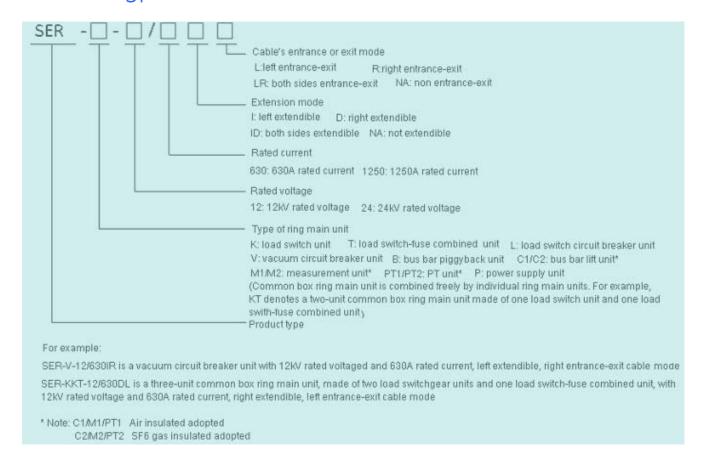
Environmental temperature	-25°C~+40°C
Humidity	Maximum of daily average relative humidity ≤95%, maximum of monthly average relative humidity≤90%.
Height above sea level	≤1000meters (It is necessary for users to inquire manufacturers when using the product at more than 1000 meters above sea level.)
Special condition	ons: C60694 standard, the ender users must consult with manufacturers to reach a

According to IEC60694 standard, the ender users must consult with manufacturers to reach a consensus for the special requirements under special or non-normal operating conditions. If the running condition is especially severe, it is essential to consult with manufacturers and suppliers.

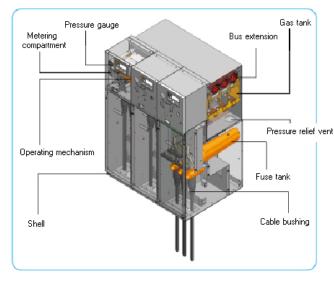
Standards

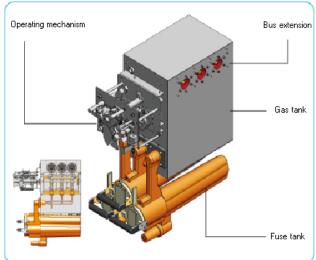
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Product type



Structure





Advanced Design

Fuse warehouse chamber integration

The three-phase in-out cables and fuse tank are into one casting. Triangular distributions were arranged, compact and easy to install. For Installed out of the gas tank, the fuse combination unit's gas tank is as the same size as the load break switch unit's, lessen the gas tank leakage dots, convenient for usage and maintenance

SecoVac-R circuit breakers

Three-phase in one, horizontal disposal, compact structure and convenient installation. Circuit breaker gas tank is perfectly the same wide as other functional units. High-voltage live part is completely isolated from outside environment to avoid any adverse environmental impacts.

Modular design

SecoRMU series ring main unit is based on load break switch unit, fuse combination unit, circuit breaker unit, bus tie unit, as well as other special functional modules. Any unit is extendible to each other and can extend or connect by bus connectors. Dimensions of all units are the same, that is, width×depth×height is 350×800×1380mm.

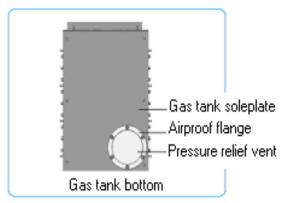
The load break switch unit, the switch fuse unit can be any combined of modules to form a combination of common box-type unit. One gas tank can be installed up to five functional units in it, any of which is fully consistent with to the individual functional unit on the internal structure and performance.

Pressure relief vent

Each SecoRMU gas tank has a pressure relief vent. Pressure relief vent will be opened to safely drain its pressure-airflow into the pressure relief pipeline at its the back or bottom (depending on user requirements) in case of arcing fault occurs in the gas tank, functions as pressure relief (its rated bursting point set at the two standard atmosphere)







Excellent Equipments and Craftworks



CNC laser cutting

German TRUMPF's CNC laser cutting and stamping complex molding machining centers, sheet metal processing accuracy of up to 0.05mm, to ensure that the gas tank assembly gap is less than 0.1mm.



CNC epoxy resin pressure molding

The German HEDRICH company's CNC epoxy resin vacuum mixture / pressure molding system produced SecoVac-R vacuum circuit breakers, fuse tanks, exit bushings, bus tie socket, insulators such as epoxy resin insulating components, to provide the perfect insulation performance



Automatic helium gas leak hunting

German SEILER's automatic helium gas leak hunting equipment, accurate detection of gas tank leakage rate, to ensure that gas leakage rate is less than 0.02% / year, to ensure that the gas tank effective working life is longer than 30 years.



CNC laser weld

German TRUMPF's three-dimension five-axis CNC laser automatic welding system protected within helium gas, to ensure the highest standards of gas tank welding quality, to ensure the air tightness and identity, the annual leakage rate is less than 0.02%.



CNC silica rubber pressure molding

Swiss company VOGEL's CNC silica rubber mixture / pressure molding system, produces bus bar connectors, cable bushings and terminal plug covers such as silica rubber insulating components.



Partial discharge Lab

In the top-class entire Shielding partial discharge laboratory, using the German Powev Diagnosix company's partial discharge detector, to partial test of products to ensure products' high quality.



Technical Data

12 kV SecoRMU Technical Data

ITEM	Unit	Load Break Switch Unit	Switch& Fuse Unit	Load break switch unit	Unit with Vacuum circuit breaker	Bus tie unit	
Rated Voltage	kV	12/24	12/24	12/24	12/24	12/24	
Rated power Freq withstand voltage (1 min):	kV	42/50	42/50	42/50	42/50	42/50	
Rated power Freq withstand voltage (1 min): Across isolatir distance	ng kV	48/60	48/60	48/60	48/60	48/60	
Rated lightening impulse withstand voltage: kV peak	kV	95/125	95/125	95/125	95/125	95/125	
Rated lightening impulse withstand voltage: Across isolating distance	kV	110/145	110/145	110/145	110/145	110/145	
Rated frequency	Hz	50/60	50/60	50/60	50/60	50/60	
Rated current	А	630	*	630,1250	630,1250	630	
Rated short-circuit breaking current	kA			20,25	20,25		
Rated short time withstand current 3s	kA	20		20,25	20,25	20	
Rated peak value withstand current	kA	50		50,63	50,63	50	
Rated short-circuit making current	kA	50		50,63	50,63	50	
Making current (peak value)	kA		*				
Rated transfer current	Α		1800/930				
Rated active load-breaking current	А	630	630			630	
Rated closed loop breaking current	А	630	630			630	
5% rated active load breaking current	Э А	31.5	31.5			31.5	
Weight	kg	160	180	200	200	160	
Mechanism endurance/Operations		5000	5000	5000	10000	5000	
Stainless steel thickness of go tank	mm	3.0					
SF6 Gas pressure N		0.03					
Ratio of leakage every year <0.02							
Arc-control test		20kA 1s					
Immersion test		12kV 24hours(30kpa under water)					
Protection class		Gastank					
Fuse chamber		IP67					
RMU		IP3X					

^{*}Note: Rated current and closing current (peak value) of swith fuse units are no bigger than the values of the fuses assembled in.

SecoRMU Individual Ring Main Unit



SER-K Load-Break Switch Unit

Scheme	Model dimension/ weight	Standard Configuration	Options	Remark
	SER-K Load-break switch unit 350×800×1380(width×depth×h eight)/160kg	 Three position load break switch Spring operation mechanism Load break switch and earth switch position indicator Live display SF6 gas pressure meter 630A bus bar earthing busbar earth switch and gate/operation shaft interlock outlet-wire bushing with sensor function panel padlock device 	 Outlet-wire left and/or right Extendible left and/or right electrical operation mechanism DC24/48/110/220V,AC110/220V short fault and earth fault indicator 穿芯 current transformer and Ampere meter lightning arrester Dual cable head Load break switch position auxiliary contact 3NO+3NC Earth switch position auxiliary contact 2NO+2NC 	Switch on or off the connections of cable and busbar, can position in-out cables three phase earthing at the same time, can function shorting open and close

SER-T Switch & Fuse Unit

Scheme	Model dimen sion/ weight	Standard Configuration	Options	Remark
	SER-T Switch & fuse unit 350×8 00×13 80(wid th×dep th×hei ght)/18 0kg	 Three position load break switch Spring operation mechanism Load break switch and earth switch position indicator Triangle fuse tank subassembly (without the fuse itself) Live display SF6 gas pressure meter 630Abus bar Earthing bus bar Earth switch and gate/ operation shaft interlock Outlet-wire bushing with sensor function panel padlock device 	 Outlet-wire left and/or right Extendible left and/or right Electrical operation mechanism DC24/48/110/220V,AC110/220V Dispart winding DC24/48/110/220V,AC110/220V Short fault and earth fault indicator Ring current transformer and Ampere meter Lightning arrester Dual cable head Load break switch position auxiliary contacts 3NO+3NC Earth switch position auxiliary contact 2NO+2NC Fuse status auxiliary contact 1NO Fuse (See transformer-fuse table) 	Use to control and protecti on of transfor mers less than 1250kVA (refer us for above 1600 kVA)

SER-V Unit with Vacuum Circuit Breaker

Scheme	Model dimen sion/ weight	Standard Configuration	Options	Remark
	SER-V Unit with vacuu m circuit breake r 350×8 00×13 80(wid th×dep th×hei ght)/20 0kg	 Three position insulating /earthing switch 630A/1250A vacuum circuit breaker Vacuum circuit breaker operation mechanism Vacuum circuit breaker and three position insulating switch mechanism interlock and position indicator Live display SF6 gas pressure meter 630A/1250Abus bar Earthing bus bar Earth switch and gate/operation shaft interlock Outlet-wire bushing with sensor function Panel padlock device Relay device 	 Outlet-wire left and/or right Extendible left and/or right Vacuum circuit breaker electrical operation mechanism DC24/48/110/220V,AC110/220V Close winding DC24/48/110/220V,AC110/220V Dispart winding DC24/48/110/220V,AC110/220V Ring current transformer and Ampere meter lightning arrester dual cable head Vacuum circuit breaker position auxiliary contact 4NO+4NC insulating switch position auxiliary contact 2NO+2NC earth switch position auxiliary contact 1NO+1NC 	Using in protecting circuitry, electric machines and transforme rs

SER-L Load Switch Circuit Breaker Unit

Scheme	Model dimen sion/ weight	Standard Configuration	Options	Remark
	Load switch circuit breake r unit 350×8 00×13 80(wid th×dep th×hei ght)/20 0kg	 Three position load break switch 630A vacuum circuit breaker Vacuum circuit breaker operation mechanism Three position load break switch operation mechanism, with separate load break switch and earth switch operation shaft Vacuum circuit breaker and three position load break switch mechanical interlock and position indicator Live display SF6 gas pressure meter 630Abus bar earthing busbar earthing switch and gate/operation shaft interlock The interlock between circuit breaker operation mechanism and load break switch operation mechanism Enter-wire bushing with sensor function Panel padlock device Relay device Disport wiring (for relay protection action) 	 Outlet wire left and/or right Extendible left and/or right Ring current transformer and Ampere meter Lightning arrester Dual cable head Vacuum circuit breaker position auxiliary contact 4NO+4NC Load break switch position auxiliary contact 3NO+3NC Earth switch position auxiliary contact 2NO+2NC 	Control and protecti on of big transfor mers

SER-B Bus tie Unit

Scheme	Model dimensio n/ weight	Standard Configuration	Options	Remark
	SER-B Unit Bus tie Unit 350×800× 1380(widt h×depth× height)/16 0kg	 Two position load break switch Operation mechanism Switch position indicator SF6 gas pressure meter 630Abus bar Earthing busbar Panel padlock device 	Outlet wire left and/or right Extendible left and/or right Load break switch electrical operation mechanism DC24/48/110/220V, AC110/220V Load break switch position auxiliary contact 3NO+3NC	Joint of busbars

SER-C Bus bar Lift Unit

Scheme	Model dimensio n/ weight	Standard Configuration	Options	Remark
	SER-C Bus bar lift unit 350×800× 1380(widt h×depth× height)/10 0kg	 630Abus bar live display Earthing bus bar 	C1adopts air insulating C2 adopts SF6 gas insulating	To connect in-out cables

SER-M Metering Unit

Scheme	Model dimen sion/ weight	Standard Configuration	Options	Remark
	SER-M Meteri ng Unit 350×8 00×13 80(wid th×dep th×hei ght)/18 0kg	 630A bus bar 2 pieces of current transformers 2 pieces of potential transformers Fuse for protecting PT Live display 	 3 pieces of current transformers 3pieces of potential transformers Lightning arrester 1 piece of active kilowatt-hour meter 1piece of reactive kilowatt-hour meter 	Using in comput ation of electricit y

SER-PT PT Unit

Scheme	Model dimen sion/ weight	Standard Configuration	Options	Remark
	SER-PT PT unit 350×8 00×13 80(wid th×dep th×hei ght)/18 0kg	 630A bus bar 2 piece of potential transformers Fuse for protecting PT 1 piece of voltmeter Lightning arrester Live display 	 3 pieces of potential transformers Insulating switch 	To inspect busbar voltage, provide voltbrok en signal

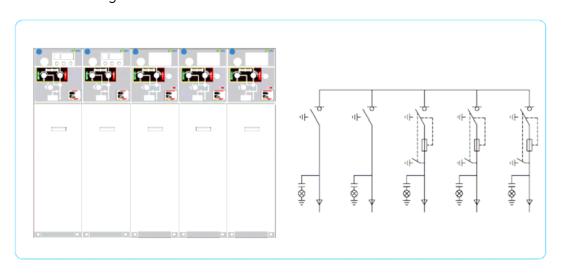
SER-P Power Unit

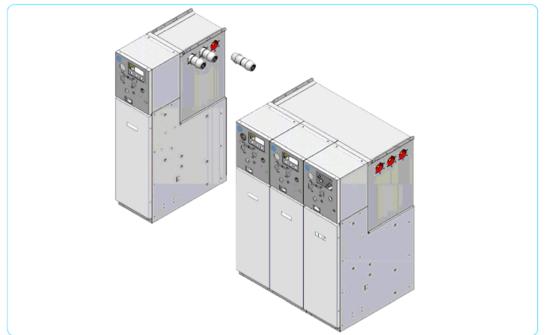
Scheme	Model dimen sion/ weight	Standard Configuration	Options	Remark
	SER-P Unit Power Unit 350×8 00×13 80(wid th×dep th×hei ght)/18 0kg	 630A bus bar 1 operational transformer Fuse for protecting PT 1piece of DC24V voltmeter 1piece of AC220V voltmeter 24VDC charge module 2 pieces of 12V24Ah storage batteries Live display 	Insulating switch Lightning arrester	Provide DC/AC2 4V~220 V work power supply



SecoRMU common gas box ring main unit

Compact project with several individual units in one gas box called common gas box ring main unit is also applied. There can be up to 5 units combinations in one gas box abide by customers' need. All kinds of combinations are not only extendible but also connectable with other individual unit and common gas box unit.





SecoRMU common gas box style

No.	Model	Composing	Primary scheme diagram	Dimensions (mm)	Weight (kg)
1	SER-CT	Bus bar lift unit, fuse combination unit	Î.	700×800×1380 (width×depth×height)	280
2	SER-KT	Load-break switch unit, fuse combination unit		700×800×1380 (width×depth×height)	340
3	SER-TK	Fuse combination unit, load-break switch unit		700×800×1380 (width×depth×height)	340
4	SER-CV	Bus bar lift unit, vacuum circuit breaker unit	r.	700×800×1380 (width×depth×height)	300
5	SER-CK	Bus bar lift unit, load- break switch unit	+	700×800×1380 (width×depth×height)	260
6	SER-3K	Three load-break switch units	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1050×800×1380 (width×depth×height)	480
7	SER-KKT	Two load-break units and one fuse combination unit		1050×800×1380 (width×depth×height)	500
8	SER-KTK	Two load-break units and one fuse combination unit		1050×800×1380 (width×depth×height)	500
9	SER-TKK	Two load-break units and one fuse combination unit		1050×800×1380 (width×depth×height)	500
10	SER-KTT	One load-break unit and two fuse combination units		1050×800×1380 (width×depth×height)	520

11	SER-KKV	Two load-break switch units and one vacuum circuit breaker unit	1050×800×1380 (width×depth×height)	520
12	SER-4K	Four load-break switch units	1400×800×1380 (width×depth×height)	640

SecoRMU common gas box style

No.	Model	Composing	Primary scheme diagram	Dimensions (mm)	Weight(kg)
13	SER- KKKT	Three load-break switch units and one fuse combination unit		1400×800×1380 (width×depth×height)	660
14	SER- KKTK	Three load-break switch units and one fuse combination unit		1400×800×1380 (width×depth×height)	660
15	SER- KKKL	Three load-break switch units and one load switch circuit breaker unit		1400×800×1380 (width×depth×height)	680
16	SER- KKVK	Three load-break switch units and one vacuum circuit breaker unit		1400×800×1380 (width×depth×height)	680
17	SER- KKVV	Two load-break switch units and two vacuum circuit breaker units		1400×800×1380 (width×depth×height)	720
18	SER- KKTT	Two load-break switch units and two fuse combination units		1400×800×1380 (width×depth×height)	680
19	SER- KTTK	Two load-break switch units and two fuse combination units		1400×800×1380 (width×depth×height)	680
20	SER- TKTK	Two load-break switch units and two fuse combination units		1400×800×1380 (width×depth×height)	680

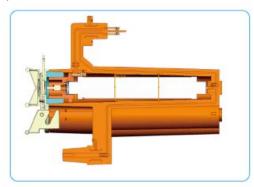
21	SER-5K	Five load-break switch units	1750×800×1380 (width×depth×height)	800
22	SER- KKKKT	Four load-break switch units and one fuse combination unit	1750×800×1380 (width×depth×height)	820
23	SER- KKKTT	Three load-break switch units and two fuse combination units	1750×800×1380 (width×depth×height)	840
24	SER- KKTTT	Two load-break switch units and three fuse combination units	1750×800×1380 (width×depth×height)	860

SecoRMU protect functions Transformer/wiring protection

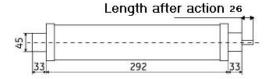
SecoRMU series ring main unit provides two modes of protections of transformers

Load switchgear-Fuse combined Unit:

When any of fuses fuses out, the firing pin will trigger the spring energy-store mechanism of load break switch so that the load breaker immediately switches to cut off the loop current. Transformer and fuse matching selection of type, see the table.



Fuse dimensions





Transformer-fuse table:

	Rated Voltages(kV)	Rated Capability of Transformers (kVA)												
		50	100	160	200	250	315	400	500	630	800	1000	1250	1600
	6~7.2	16	25	30	40	50	63	100	100	100				
	10~12	10	15	20	25	32	40	50	63	80	80	100	100	125*
	13.8	6	10	16	20	25	32	32	50	50	50	63	80	
	15~17.5	6	10	16	20	25	25	32	40	50	50	63	80	
	20~24	6	10	10	16	16	20	25	32	40	40	40	50	80

^{*}Consult with us please.

Cooperation of Relay system and circuit breaker unit

When vacuum circuit breaker is adopted as protection type of transformer and circuitry, SEG WICI self-powered relay system is a choice to provide short-circuit protection, over-current protection and earth fault protection.

- Definite time over-current and shorting protection (ANSI 50/51)
- Normal inverse curve over-current protection and definite time short current instantaneous break protection (ANSI50/51)
- Definite time earth over-current protection (ANSI 50N/51N)

WIC1 is a kind of digital relay by CT-powered whose structure is compact and whose connection is simple and safe. It has high immunity to electromagnetic interference.







SecoRMU can also be customized with other relay system installed such as GE MIFII. GE MIFII should be installed in the low-voltage tank on the top of RMU unit, and configure the external power supply.

Protection and Control

- Delay of phase-earth instantaneous over current component
- Thermal image protection
- "N" option for Singlephase or earth
- ANSI, IEC, IAC, EPTAR-C standard, Normal inverse characteristic curve
- Circuit breaker control (off-on positions)
- Four times automatic reclosure
- Cooling load startup components

- Configurable circuit breaker failure function
- Configurable I/O
- 6 outputs: for tripping, auto-test and alarming, 4 auxiliary outputs

Surveillance

- 32 event log
- Fault recorder including analog signals and digital signals
- KI2 counter for circuit breaker maintenance
- Each phase current measurement

 Screen displays the last 5 tripping information

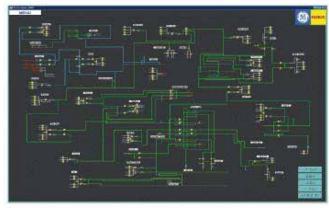
User Interface

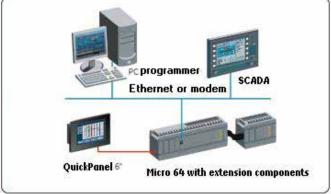
- EnerVista for setup and surveillance
- 2 * 16-byte LCD display
- 6 LED lights, rear RS485 interface
- Front panel is RS232 interface, rear is RS485 interface, support MODBUSRTU and IEC60870-5-103 Statute

Distribution Automation Module

SecoRMU can also configure the GE Fanuc Series PLC to help the realization of device management, fault alarm, load monitoring, telecommunications and network architecture, so as to enhance the quality and supply reliability of electricity.







Mini-size VersaMax Micro PLC ensures modular design flexibility and provides a large number of embedded features. They are including up to 28 I / O points (expandable to 170), two built-in serials, rapid scan cycle time, a strong powerful instruction set of guiding devices, as well as major memory which allows you to double choices when programming. All these features are included in a solid modular design module, user-friendly, with a long-term durability. This integration logic controller can be compiled to provide users with a wide range of applications with all the necessary control.

Main features of RTU

Communications

- Support Modbus Slave and Master
- Report abnormity through the logic control
- Support Ethernet-based Modbus TCP Server
- Support by telephone lines the Modern, using Sixnet (VT Modem 1 and 2) to test port automatic monitoring request of RTU and SNP

Hardware

 A wide range of analog quantity I / O and from 12VDC to AC Discrete I / O, Digital Input (32DI), digital output (12DO) and Analog Input (8AI), two serial ports (RS232, RS485 and USB *) Port can support two slave ports, and one master / slave port



CPU support

- Up to 32K data register (Micro 64)
- Write Flash (Micro 64)
- Support floating-point, Micro23, 28 and 64 to support the real-time clock



SecoRMU Accessories



Motor operation mechanism

SecoLBS load switches and vacuum circuit breaker SecoVac-R can be fit function with remote control electric operation, but also the structure and size of the units maintain unchanged.



Terminal cover

Special terminal covers can be applied to insulate and seal on both ends of a set of RMUs



Fault indicator

Capacitive voltage indicator indicates whether the busbar or cable Live. The following jack can also be used to check phase. It is also a choice to install the short fault indicator or/and earth fault indicator for fault location.



Pressure meter

The front of each gas tank is equipped with a pressure indicator to facilitate the observation of whether the inside gas pressure is the normal, to ensure the security and reliability of operation.



Operating handleUsing to manual operation



Busbar connector

A special busbar connection is designed delicacy, small connection resistance, connecting reliable and easy installation to complete the expansion of connectivity between units. The design of structure of inner cone, as well as shielding silica gel rubber can seal on the intermediate connecting busbar and terminal busbar bushing to achieve full-sealed, full insulation. It can also be set aside for future expansion.



Cable connectors

Standards: EN50181 DIN47636

- Shielding type (touchable), non-shielding (untouchable)
- Front insert type cable connector, rear insert type cable connector, rear insert type lightning arrester
- Cable section, 35mm²~400mm²
- Standard unit can install 2 routes cables at best (Front insert type cable connector + rear insert type cable connector, front insert type cable connector + rear insert type lightning arrester). Please refer us for 3 routes or above (Non-standard units).

Outdoor Switch Station

Outdoor RMU station which adopts prefabricated all-metal structure, has high mechanical strength. Its protection class is up to IP33, anti-rain, anti-seepage, anti-small animals.

Good ventilation

Symmetric shutters are open Left & right, up & down. Window-inner line is detachable and thin high-quality net divide

Excellent heat insulation

The coping set double tiers of heat insulation cotton

Anti-dew

Inclination of the roof is designed greater than 3 degrees. Roof extends the entire station together with good ventilation, to prevent in the box emerging the dew.

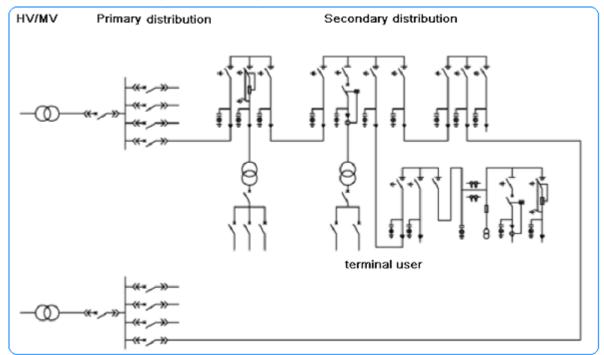


Typical combination	Dimensions (width depth height mm)
Three units	1250 1100 1650
Four units	1600 1100 1650
Five units	1950 1100 1650
Six units	2300 1100 1650
Metering unit plus four units	2200 1100 1650
Metering unit plus five units	2550 1100 1650
Four units plus Metering unit plus two units	2900 1100 1650

Note: Consult with us, if users need other dimensions specifically.

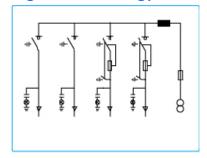
SecoRMU Series Ring Main Unit Typical Solutions

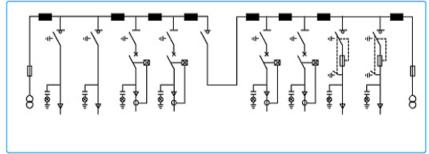
Typical solution designed for ring network



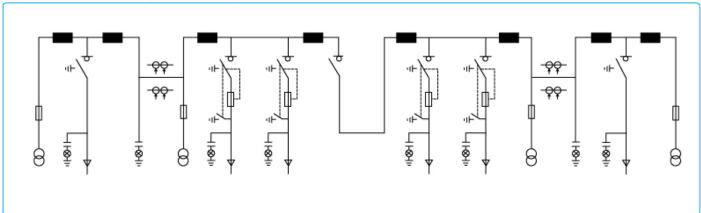
Ring meshwork type transformer protection

Groovy open-close station

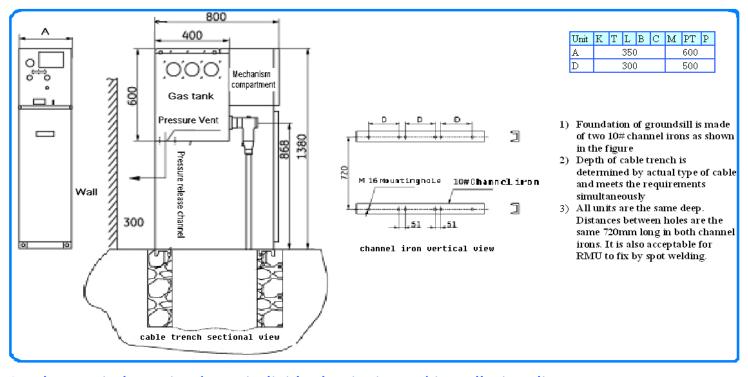




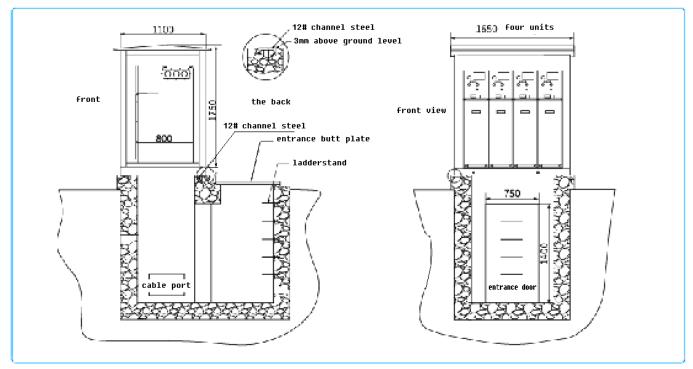
Two in-set wiring as backup each other



Dimensions and Installation groundwork Individual unit dimension and installation diagram



Outdoor switch station (Four individual units in one) installation diagram



Checking list for SecoRMU Order

Cust	omer									onta erso			
Pro	ject										epho umbe		
Add	Address										Fax		
Delive	er time									Е	E-mai	il	
Power	supply									Tota	l qua	ntity	
typ	e⑥										l qua		
											l qua		
	voltage											rent	630A□ 1250A□
	voltage	DC24	V□		48V_] [DC110V		DC220		AC	C110V	
No.	Type(<u>1</u>)	Extendible@	In-out cable③	ty	ation pe Au	Fuse current (A) ④	transf Pote	rent ormer/ ential former	Rel prote WIC1		Cable connector©	Quantity (set)®	Remark
	Ü	®	e ⊚	Manual	Automatic	(A)(4)	2CT/2PT	3CT/3PT	-		ctor⑤	et)⑥	
Individu	ual RMU												
1	K					/			/	/			
2	Т									/			
3	В					/	/	/	/	/	/		
4	V					/			/				
5	L			/	/	/			/				
6	С			/	/	/			/	/			
7	М			/	/	/			/	/	/		
8	PT			/	/	/			/	/	/		
9	Р			/	/				/	/	/		
No.	Type①	Extendible②	In-out cable③	<u> </u>	Operation Automatic type	Fuse current (A) ④	transf Pote	rent ormer/ ential former	Rel prote WIC1	ay ction MIFII	Cable connector⑤	Quantity (set)⑥	Remark
	<u>1</u>))le <u>(2</u>)	ble③	Manual	utomatic	าt (A)④	2CT/2PT	3CT/3PT			ector⑤	set)⑥	
Commo	on gas b	ox RI	MU										
10	K T					/			/	/			
11	С			/	/	/			/	/			

	Т									/				
	K					/			/	/				
12	K	/	/			/			/	/				
	Т									/				
	K					/			/	/				
13	K	/	/			/			/	/				
13	T	/	/							/				
	Т									/				
	1/					/			/	/				
	K K	/	/			/			/	/				
14	T	/	/							/				
	Т	/	/							/				
	Т									/				
15														
13														
Option	al acces	ssorie	S				1							
	Name		Ç)uant	ity	Name			Q	uanti	ty	Others		
	Operating handle						Check phase apparatus							
16	Padlock						Auxilia contac 1close	en						
	Bus bar						Bus bar terminal							
	connector						cover							

Note ①:1) K-Load-break switch Unit, T-Switch & fuse Unit, B-Bus tie Unit, V-Unit with vacuum circuit breaker, L-Load switch circuit breaker Unit, C-Bus bar lift Unit, M-Metering Unit, PT-PT Unit, P-Power Unit

2) Common gas box Units are made of C, T and K units freely, one common gas box unit can hold five individual units at most.

Note②: Give clear indication of extendible style at the end of bus bar please: Select D if right extendible, Select I if left extendible, Select ID style if both sides are extendible.

Note③: When in-out cables are required to connect to the bus bar of the terminal unit: Select R style if connection is right. Select L style if connection is left; Select LR style if both sides are connected. Redline it if neither side is connected.

Note 4: You can look up the optional current range of the fuse in the "Transformer-Fuse table"

Note 5: Give clear indication of the specification of cable head

Note 6: For example: P+K+M+TT+B+TT+M+K+P, total account is nine, items in the table should be filled in according this solution.

