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Committed to becoming a world-class manufacturer of intelligent electric

https://www.maxge.com



COMPANY PROFILE

MAXGE Electric Technology Co., LTD was founded in 2006 with a registered capital of 50 million RMB. Its headquarter is located in Deqing County, Huzhou City, Zhejiang Province. It is a large-scale comprehensive high-tech enterprise integrating design, research and development, manufacturing, marketing and service.

Since its establishment, MAXGE has been professionally oriented and committed to the design and manufacturing of a series of products such as low voltage circuit breakers & controlgear for domestic, industrial protection and new energy power distribution, in order to meet user needs and provide high-quality solutions.

At present, MAXGE has won many honors such as National High-tech Enterprise, National Specialized and Sophisticated "Little Giant", Zhejiang Enterprise Technology Center, Zhejiang High-level Enterprise R&D Center, Zhejiang Export Brand and Zhejiang Digital Workshop.

In the process of production and operation, we have obtained ISO9001, ISO14001 and ISO45001 and obtained SGS certifications, and the testing center has won the national CNAS laboratory certification. The products have obtained CE, CB, VDE, KEMA, TUV, INTERTEK, BV, ASTA, EAC, INMETRO certifications with reliable quality, and are exported to more than 60 countries and regions such as the European Union, the South America, Middle East, Africa, and Southeast Asia. We have multiple branches in the United Kingdom, Spain, Netherlands and Hong Kong, and we are dedicated to providing high-quality products and services to global customers.



2006

The Company Was Established In 2006



60⁺

We Provide Products To Over 60 Countries Around The World

Currently MAXGE has a R&D team of more than 100 personnel and nearly 1,000 employees, equipped with state of the art automatic production lines, CNAS affiliated laboratories and testing centers. MAXGE has obtained more than 100 invention and utility model patents, 10 software copyright, and participated in the formulation of national, industry and group standards.

There are over 133,000 square meters of Modern Intelligent Manufacturing Bases in Zhejiang Hangzhou, Huzhou and Anhui Wuhu.

The Huzhou factory covers an area of over 33,000 square meters, with a total investment of 500 million RMB. At present, there are 42 production lines in the automaticn workshops, among which the automatic assembly production line, semi-automatic assembly production line and automatic inspection line cover more than 90%.

DEVELOPMENT HISTORY

(2006 to 2010) Development

1.0

Brand Establishment

Wenzhou Maxge Electric Technology Co, Ltd. was established, and focused on circuit breakers manufacturing.

(2011 to 2015) Development

2.0

Thrive Period

Moved to Deging County, entered into a new stage and focused on the design, development and production of low-voltage Circuit Breakers.

(2016 to 2020)

Development

3.0

4T+5I

- Standardization
- Automation
- Digitalization
- Intelligentization
- Products Innovation
- Technology Innovation
- Management Innovation Marketing Innovation
- Brand Innovation

(2021 to 2025)

Development

4.0

Comprehensive Transformation

The production capacity of Wuhu greenfield factory can reach 3 times bigger after construction. Not only focus on foreign markets, but also prepared for the domestic market.

(2026 to 2030)

Development

5.0

Green and Smart

MAXGE provides users with more diversified, intelligent and creative solutions, and promote the whole society towards the goal of green, intelligent and sustainable development.

2.0

3.0



CORPORATE CULTURE



Brand Interpretation

Chinese Name: Mei Gao

• Mei: Perfection in Excellence

Gao: Virtue in Action

English Name: MAXGE

MAX: Maximum

• GE: Global Electric

Core values

Customer Focused Altruism & Win-win Truth-seeking & Innovation

Mission

Making Electricity Safe Green Smart

Vision

CULTURE

SHORT-TERM VISION:

Making the best quality & high cost performance circuit breaker in China

LONG-TERM VISION:

Committed to becoming a world-class manufacturer of intelligent electric



The Heart of Altruism

Remain true to the original aspiration Link the hearts tightly Keep the mission firmly in mind

Be upright and integrity



The Tree of Wisdom

"Stay Hungry Stay Foolish" Be wise and enlightened Self-growth and self-motivated



The Spirit of Struggle

Keep going, never give up

Be loyal and trustworthy

Strive continuously to strengthen oneself Have ample virtue and accommodate all things

SCALE CONFIGURATION



01 Mold & Tooling Workshop

Equipped with made in Switzerland GF AgieCharmilles, Japan Sodick wire cutting machine & EDM machine and Vertical milling CNC processing area. At present, it has achieved independent design, manufacturing and production of press tools & molds, with a comprehensive manufacturing capacity of more than 30 sets per month. Now the complete mold manufacturing process has been established, and an independent mold quality inspection group is equipped to realize the full inspection of the mold processing to ensure the precision and accuracy of mold.



02 Stamping Workshop

Equipped with high & medium speed stamping presses, and auxiliary equipment. The average punching speed can reach 100 to 300 strokes per minute, the highest punching speed can reach 500 strokes per minute, and the monthly production capacity of the workshop is to cater stamped parts for 5 millon MCB, 500K RCCB, 500K RCBO & 200K MCCB.



O3 Spot Welding Workshop

Equipped with automatic coil winding machines, automatic braid compacting & cutting machines, automatic thermal and magnetic welding group assembly machines ,automatic armature assembly machines, automatic pad printing on handle and latch holder machines. The automation level is over 90%, and it is mainly responsible for the production of welding groups required by the finished product workshop.

Through the integrated technology of winding and welding, automatic welding production has been realized. Thermal assembly heat treatment process is adopted to improve first pass yield during thermal verification process.

O4 Injection Molding Workshop

Equipped with 38 injection molding machines from 60 to 350 ton capacity, overhead cranes and auxiliary equipment such as automatic warpage prevention machines, mould temperature controllers, granulators. The automation level is over 90%, realizing an automatic and efficient production process.

Adopted centralised material feeding system to improve production efficiency and realize effective utilization of resources.

Smart humidifying room, use advanced humidification process to strengthen the mechanical properties of the product.

MAXGE adapts online CCD image detection unit though which critical parts of mechanism undergoes 100% inspection to ensure delatch free breakers. Through CCD image detection equipment, efficient, accurate and reliable image detection and analysis can be realized to ensure product quality.





05 ACB Automatic Testing Line

The product will go through the steps of manual assembly, contact parameters tests such as trip force, trip distance, ACB & cradle assembly by robot, mechanical operation test unit to verify internal accessories and motor, current characteristic test unit, high voltage and loop resistance test unit, & appearance inspection by CCD device. Automation level has reached 80% and the monthly detection capacity has reached more than 1000 poles.



06 MCCB Automatic Workshop

It mainly produces Moulded Case Circuit Breaker such as thermal magnetic type, electronic type, and ELCB type, as well as Intelligent Air Circuit Breaker.

There are currently 8 automatic production lines & one manual line, and the monthly production capacity reaches 200,000 units. It has realized the automatic assembly & inspection of the whole process,including contact parameters such as automatic open distance, overtravel, on-off, synchronicity, trip force, trip distance, loop resistance, lift force & routine tests such as magnetic, thermal, reliability & HV test. Test line also equipped with laser printing & final appearance inspection by CCD device. The automation level has reached to 80%.

07 MCB Automatic Workshop

It mainly produces Miniature Circuit Breakers. There are 11 automatic production lines and 4 U-shaped lean production lines. At present, the average monthly production capacity can reach about 5 million poles. Equipped with automatic assembly, laser printing, riveting, Deltach test, terminal screw test, thermal calibration, cooling, thermal verification, automatic multi-pole assembly, magnetic test, on-off test and high voltage test, plasma arc cleaning, laser marking, pad printing, din clip fixing ,automatic packaging and other equipment, the automation level is over 90%. Through magnetic test, on-off test and high voltage test, to verify the response speed of the product and ensure that the power supply can be connected or disconnected stably. Adopt double-track automatic production line to improve production efficiency, add automatic tripping force measurement unit, conduct full inspection of products, and comprehensively monitor product quality.



09 RCBO Automatic Workshop

It mainly produces Residual Current Circuit Breaker with Over Current Protection with different variants such as 2P Electronic RCBO, DPN RCBO, 1P Electronic RCBO, multipole RCBO, electromagnetic type RCBO & Arc Fault Detection Device. There are 5 automatic production lines, 2 semi-automatic production lines and 3 U-shaped lean assembly lines. At present, the average monthly production capacity can reach about 500,000 poles. Equipped with automatic riveting, Deltach test, terminal screw test, magnetic test, on-off test, high voltage test, leakage current detection, thermal calibration, cooling, thermal verification, plasma arc cleaning, laser marking, pad printing and automatic packaging and other equipment, the automation level is over 85%.



08 RCCB Automatic Workshop

It mainly produces magnetic relay, electronic and electromagnetic Residual Current Circuit Breakers, plastic and metal type single-phase and three-phase Distribution Boxes, Photovoltaic Combiner Boxes and controlgear products. There are 4 automatic production lines and 4 U-shaped lean production lines. At present, the average monthly production capacity can reach about 400,000 poles. The key component of RCCB named magnetic relay is produced in a clean room of class one rating & temperature, humidity conditions are maintained within standard range. Equipped with magnetic relay workshop grinding machine, finished product workshop automatic demagnetization machine. automatic calibration bench, automatic on-off and HV test machine, magnetic relay automatic winding machine and other equipment, the detection automation level has reached 80%.





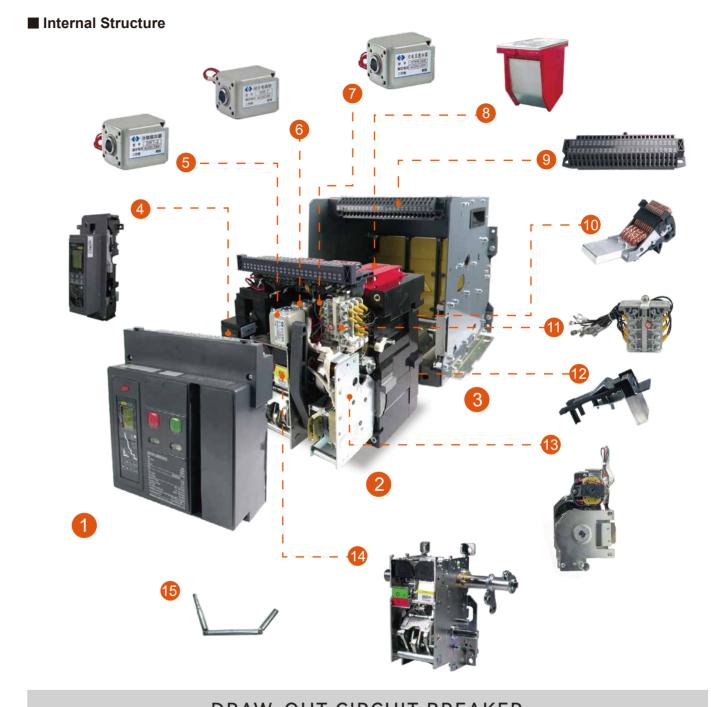


Enterprise code			MG			
Air circuit breaker	W					
Design code	6					
Frame Size	1600A,2000A,3200A,4000A,6300A,7500A					
Number of pole			3P,4P			
MG	W	6	-		/	

Synopsis Of Structure

■ External Structure





DRAW-OUT CIRCUIT BREAKER 4 Intelligent controller 2 Body 5 Shunt release 1 Face 3 Drawer base 7 Under-voltage Closing electromagnet 9 Secondary terminals 8 Arc chamber 10 Moving contact release Electric operating **Energy storage** 11 Auxiliary switch 12 Fixed contact 15 Handle crank mechanism mechanism

MR·BREAKER



Intelligent Controller

Characteristics			MGA6-2M	MGA6-3M	MGA6-3H
	Picture of product			:=:	
	Frame 1600	200,400,630,800,1000,1250,1600	0	0	0
	Frame 2000	630,800,1000,1250,1600,2000	0	0	0
Rated	Frame 3200	1600,2000,2500,2900,3000,3200	0	0	0
current	Frame 4000	2000,2500,2900,3000,3200,3600,4000	0	0	0
	Frame 6300	4000,5000,6300	0	0	0
	Frame 7500	5000,6300,7500	0	0	0
	Fiaille /500	220V AC	0	0	0
		380V AC	0	0	0
		90-300V DC	0	0	0
Auxiliary power	50VA	AC (70V DC) ~480V AC (650V DC)	0	0	0
supply voltage		AC200-AC450 universal use	0	0	0
		24V DC	0	0	0
	0.1	48V DC	0	0	0
	Oti	her voltage can be customized	0	0	0
	Dioploy	LED current column Nixie+LED	<u> </u>	_	_
	Display	Segment LCD	√ —	_	_
Human-computer		Chinese dot-matrix LCD+LED	_		
interface	Operation	Button	$\sqrt{}$	√	√ √
	•	Rotary switch + button	_	_	_
		Language:Chinese/button	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
		Modbus-RTU		_	$\sqrt{}$
		Profibus-DP	_	_	0
		HPLC (DL/T 645) wifi	_	_	0
		Device NET	_	_	0
Communication		CAN	_	_	0
functions		Ethernet	_	_	0
		Profi NET	_	_	0
		IEC61850	_	_	0
		Bluetooth	_	_	0
	Overland In	4G-LTE		_	0
		ng time delay (Ir) (Multiple curves are available) ort-circuit short time delay (Isd)	$\sqrt{}$	√ √	$\frac{}{}$
Protection		hort-circuit instantaneous (li)	√ √	√ √	√ √
		Current unbalance protection	√	√	√
	Ground fault Residual ground fault protection residual ground fault protection (Ig) Zero sequence ground-fault protection by default protection		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
functions		sidual current protection (I△n)	0	0	0
	Neutral li	ne overcurrent protection (3P+N, 4P)	0	0	0
		Overload pre-alarm	_		$\sqrt{}$
		laking Current Release (MCR)	0	√	√
		f-limit tripping protection (HSISC) roltage protection (Off by default)	0	$\sqrt{}$	$\frac{}{}$
	Overv	ollage protection (on by default)	_	V	V

Intelligent Controller

Characteristics			MGA6-2M	MGA6-3M	MGA6-3H
	Undervoltage protection (Off by default)		_	$\sqrt{}$	$\sqrt{}$
	•	unbalance protection (Off by default)	_	$\sqrt{}$	$\sqrt{}$
	Overfrequency protection (Off by default)		_	$\sqrt{}$	$\sqrt{}$
	Underfrequency protection (Off by default)		_	$\sqrt{}$	$\sqrt{}$
	Phase-s	equence protection (Off by default)	_	$\sqrt{}$	$\sqrt{}$
		e power protection (Off by default)	_	$\sqrt{}$	$\sqrt{}$
Protection functions	Require	d current protection (Off by default)	_	$\sqrt{}$	$\sqrt{}$
		Load monitoring	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
		Zone interlocking	0	0	0
	\	Voltage-checking protection	_	0	0
		Overload reopening	_	0	0
		trix/contact temperature protection	_	0	0
	Time-p	phased required current protection	_	_	_
		Thermal memory	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
	Paymen	t (payment reminder) management	_	0	0
	Current	Three-phase current, maximum of instantaneous value, unbalance rate	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
		Ground/leakage current	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
		Neutral current	0	0	0
	Voltage: Line voltage, Phase voltage,average voltage, unbalance rate		_	$\sqrt{}$	$\sqrt{}$
	Frequency		_	$\sqrt{}$	$\sqrt{}$
	Power: active power		_	$\sqrt{}$	$\sqrt{}$
Measurement functions	Power: reactive power, apparent power		_	$\sqrt{}$	$\sqrt{}$
TUTICUOTIS	Power factor		_	$\sqrt{}$	$\sqrt{}$
	Electrical energy: active electrical energy, reactive electrical energy, apparent electrical energy		_	$\sqrt{}$	$\sqrt{}$
		Phase-sequence	_	$\sqrt{}$	$\sqrt{}$
		Waveform capture	_	$\sqrt{}$	$\sqrt{}$
		Harmonic measurement	_	0	0
		System clock	_	$\sqrt{}$	$\sqrt{}$
	L	ong time delay heat capacity	_	$\sqrt{}$	$\sqrt{}$
	Self-test function: overtemperature of controller, memory fault, A/D sampling		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
	Test function		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Maintenance functions	Button lock function		_	$\sqrt{}$	$\sqrt{}$
	Replacement with electricity		_	_	_
	Remote reset		0	0	0
	I/O faultily tripping function		0	0	0
	Contact wear rate		_	$\sqrt{}$	$\sqrt{}$
		Tripping records	√ 10 times	√ 10 times	√ 10 times
	Historic records	Alarm records	—	√ 10 times	√ 10 times
		Replacement records	_	√ 10 times	√ 10 times
Contact output	Oua	ad programmble contact output	0	O	√ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Data interface		nd-held programmer interface	0	_	_
Data interface	. 10	a p. og.ao. interiace	J		

Notice: " $\sqrt{\ }$ " means basic function; "0" means optional function; " $\$ "means no such function





Ratings and Specifications

Frame Size								
Characteristics		MGW6-1600		MGW6-2	2000		MGW6-3200	
Frame size rated	Frame size rated current In(A)			2000			3200	
Number of poles	5		3,4					
Rated current In((A)	200,400,630,800, 1000,1250,1600		630,800,1000, 1250,1600,2000			1600,2000,2500, 2900,3000,3200	
Rated voltage U	e(V)	50/60Hz AC 380V, 400V, 415V, 440V						
Insulation voltag	e Ui(V)			1000	V			
Impulse withstar	nd voltage Uimp(V)		12					
Rated current of N-pole In(A)		50%/100%ln						
Ultimate breaking capacity lcu(kA)		380/400/415/440		66	80		100	
Operation breaki	ng capacity lcs(kA)	380/400/415/440		66	65		85	
Short-time withs (1s) RMS Icw(kA)	Short-time withstand current (1s) RMS lcw(kA)			55	65		85	
Max total trippin	g time(ms) without	time delay 12-18						
Closing time(ms)		60(max)						
Characteristics			١	MGW6-1600 MGW6-2000		.000	MGW6-3200	
	Electrical life			8000	8000		7000	
Closing time(ms)	Mechanical life	Maintenance free		15000	15000)	10000	
		Maintenance required		30000	30000		20000	
Connection mode			Horizontal					
Overall dimension H(height)XW(width)XL(thickness)		Fixed type 3P	3	10X263X199	402X366X298		402X428X297	
		Fixed type 4P	3	10X333X199	402X461	X298	402X543X297	
		Drawout type 3P	3	45X275X297	433X405X389 433		433X466X396	
		Drawout type 4P	3	45X345X297	433X500X	X389	433X581X396	

Ratings and Specifications

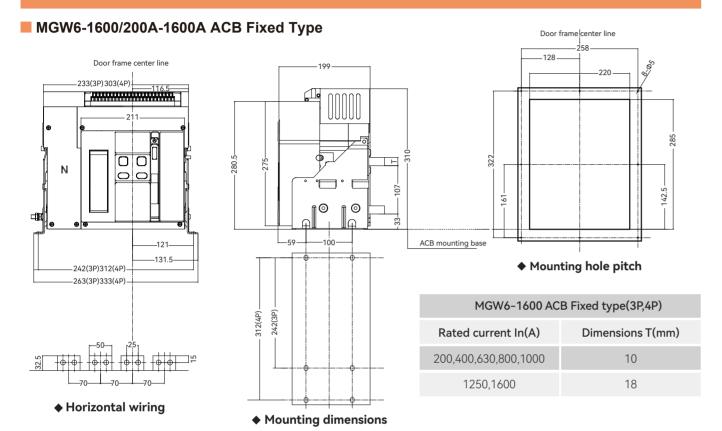
Frame Size						E DE TOTAL	
Characteristics		MGW6-4000	MGW6-	6300		MGW6-7500	
Frame size rated	current In(A)	4000	6300)		7500	
Number of poles		3,4					
Rated current In(A)	2000,2500,2900,3000 3200,3600,4000	0, 4000,5000,6300		5000,6300,7500		
Rated voltage Ue	e(V)		50/60Hz AC 380V, 400V, 415V, 440V				
Insulation voltage Ui(V)			1000V		1250V		
Impulse withstan	d voltage Uimp(V)		12				
Rated current of N-pole In(A)		50%/100%ln					
Ultimate breaking capacity lcu(kA)		380/400/415/440	100	135/150		135/150	
Operation breaking capacity lcs(kA)		380/400/415/440	100	135/150		135/150	
Short-time withstand current (1s) RMS Icw(kA)		380/400/415/440	100	135/15	50	135/150	
	g time(ms) without	time delay 12-18					
Closing time(ms)			60(max)				
Characteristics			MGW6-4000	MGW6-6	300	MGW6-7500	
	Electrical life		6000	2500		2000	
	Mechanical	Maintenance free	10000 10000		8000		
life		Maintenance required	20000 15)	10000	
Connection mode			Horizontal, Vertical	4000,500 Horizontal,V 6300A Vertica	/ertical	Vertical	
Overall dimension H(height)XW(width)XL(thickness)		Fixed type 3P	402X422X290.5 409.5X767X295		'X295		
		Fixed type 4P	402X537X290.5 409.5X997X295				
		Drawout type 3P	430X475X414.5 497X757X398		X398	495X872X398	
		Drawout type 4P	430X590X414.5	497X987	X398	495X987X398	

MR-BREAKER



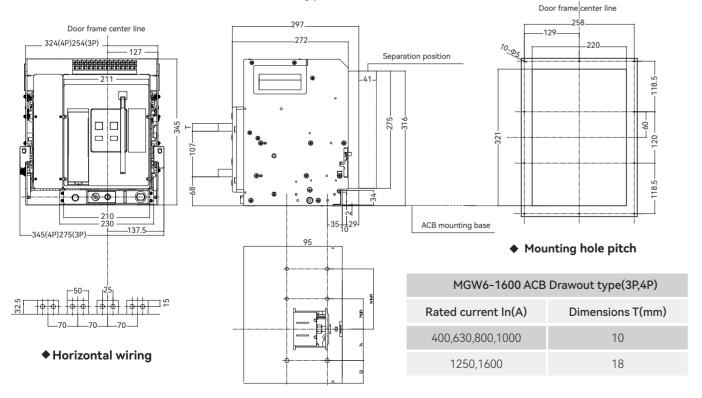
Overall and Mounting Dimensions

MGW6-1600



MGW6-1600/200A-1600A ACB Drawout Type

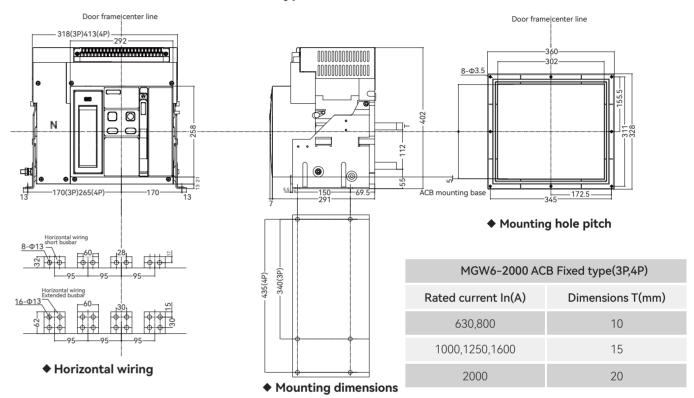
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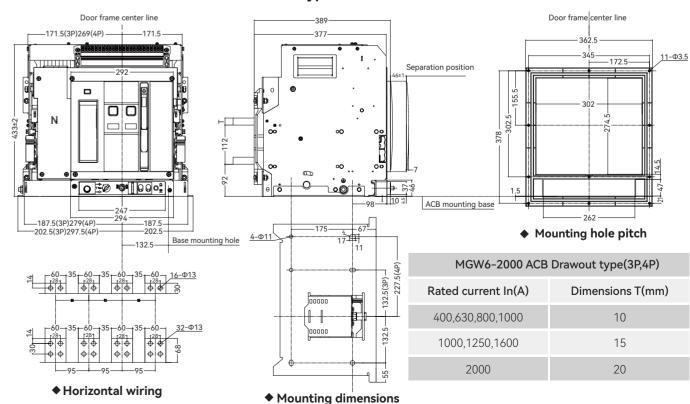
Overall and Mounting Dimensions

MGW6-2000

MGW6-2000/630A-2000A ACB Fixed Type



■ MGW6-2000/630A-2000A ACB Drawout Type



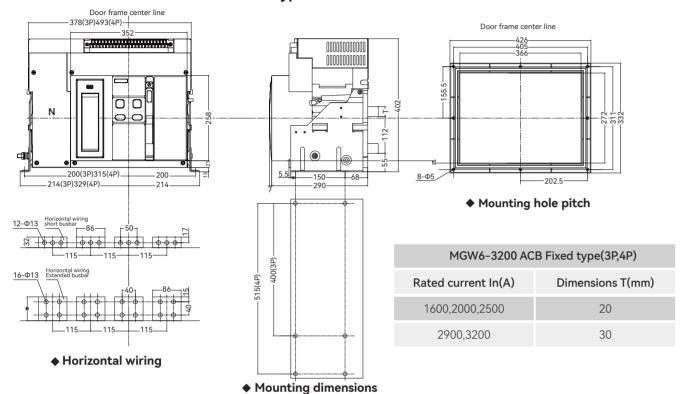




Overall and Mounting Dimensions

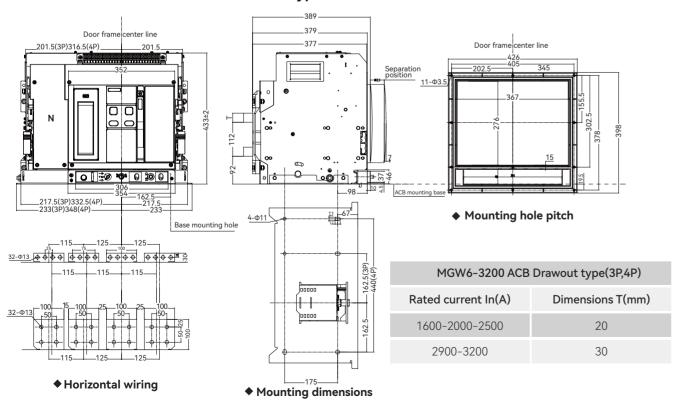
MGW6-3200

MGW6-3200/2000A-3200A ACB Fixed Type



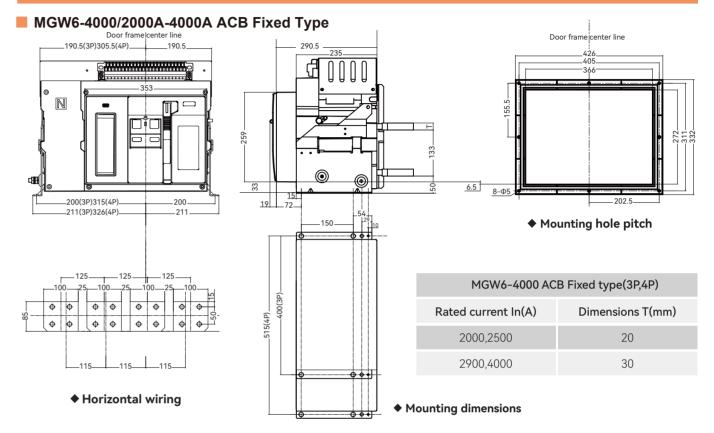
MGW6-3200/2000A-3200A ACB Drawout Type

09

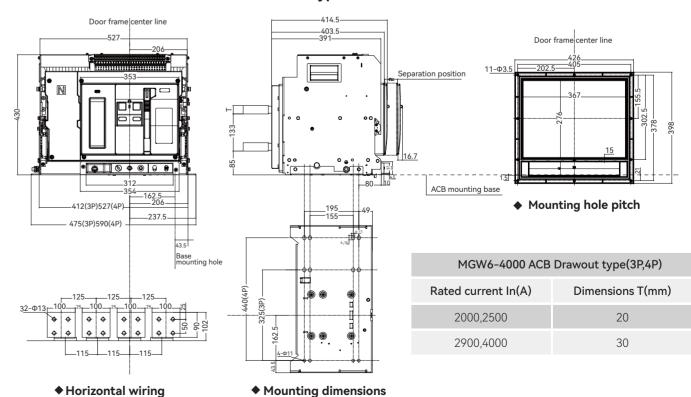


Overall and Mounting Dimensions

MGW6-4000



MGW6-4000/2000A-4000A ACB Drawout Type



Intelligence beyond vision 10

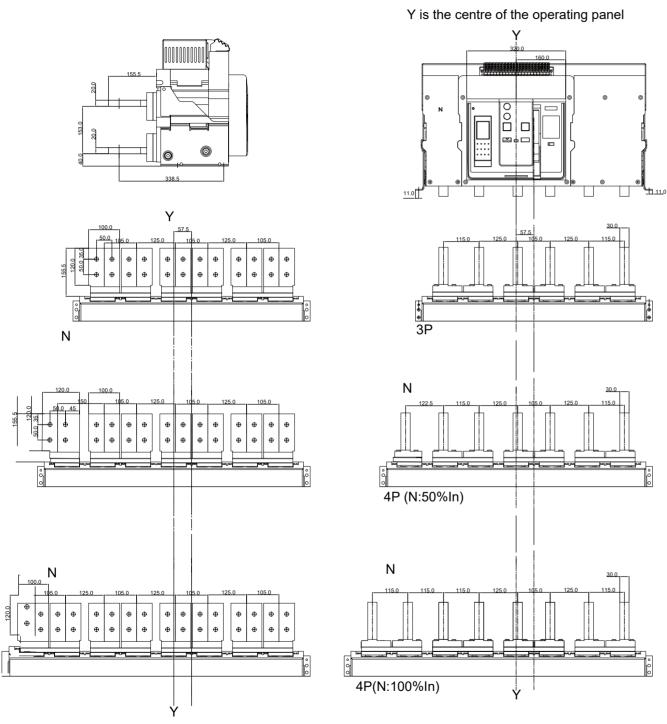
MR·BREAKER



MGW6 Series

Overall and Mounting Dimensions

■ MGW6-6300/3 Poles-4 Poles ACB Fixed Type

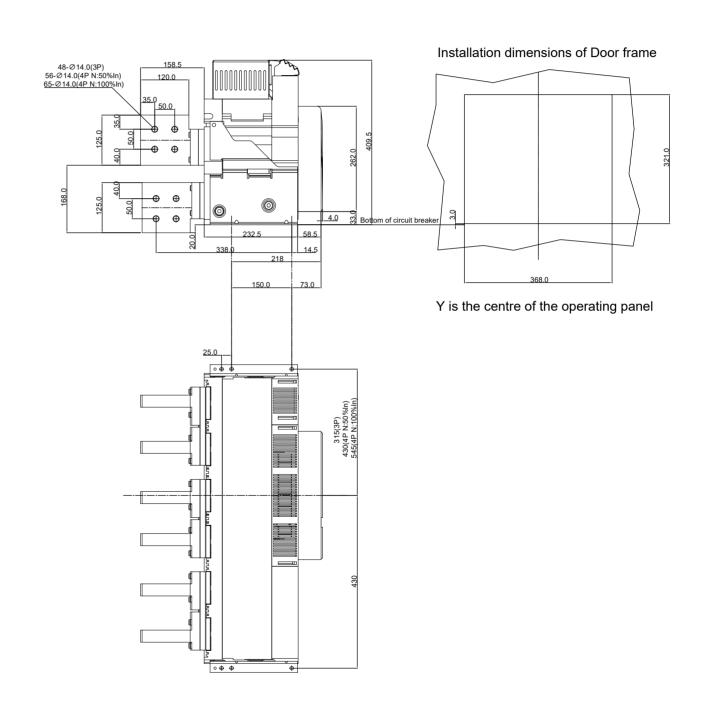


In=4000A 5000A Horizontal

MGW6 Series

Overall and Mounting Dimensions

■ MGW6-6300/3 Poles-4 Poles ACB Fixed Type





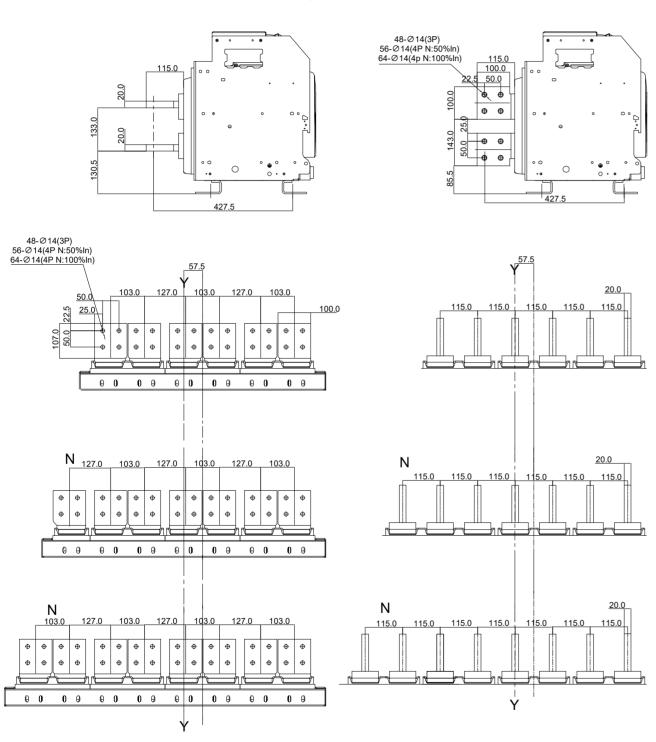


MGW6 Series

Overall and Mounting Dimensions

■ MGW6-6300/3 Poles-4 Poles ACB Drawout Type

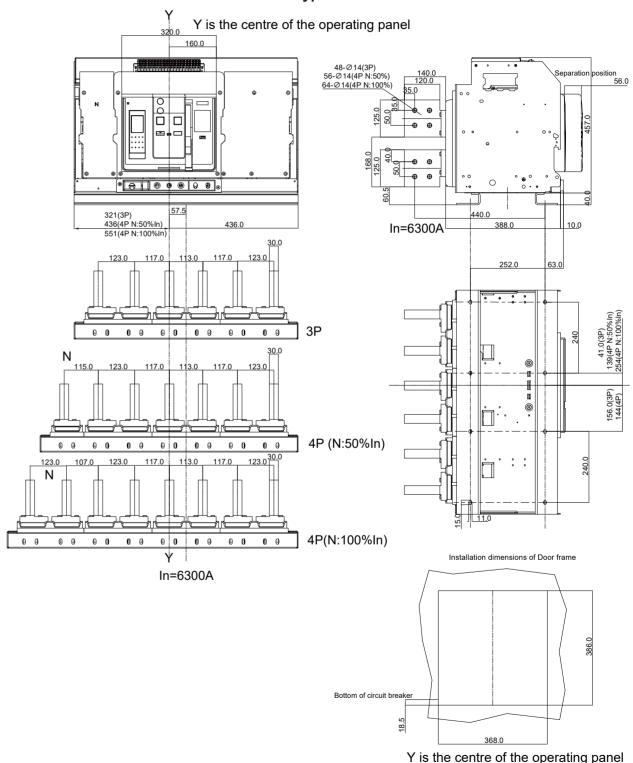
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MGW6 Series

Overall and Mounting Dimensions

■ MGW6-6300/3 Poles-4 Poles ACB Drawout Type



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In=4000A 5000A



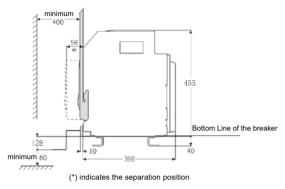


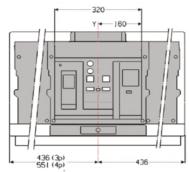
MGW6 Series

Overall and Mounting Dimensions

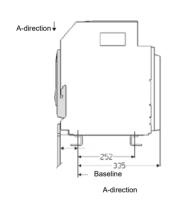
■ MGW6-7500/3 Poles-4 Poles ACB Drawout Type

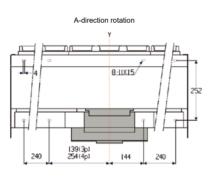
♦ Dimensions



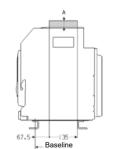


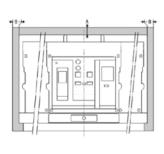
♦ Mounting dimensions

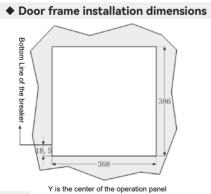




♦ Safety distance







	To insulator	To metal body	To live conductor		
А	0	0	0		
В	0	0	60		

International certifications







ISO-9001

ISO-14001

ISO-45001







KEMA

KEMA

KEMA







SEMKO

SEMKO

SEMKO