MAXGE
Intelligence beyond vision

ACB

Air Circuit Breaker

Committed to becoming a world-class manufacturer of intelligent electric

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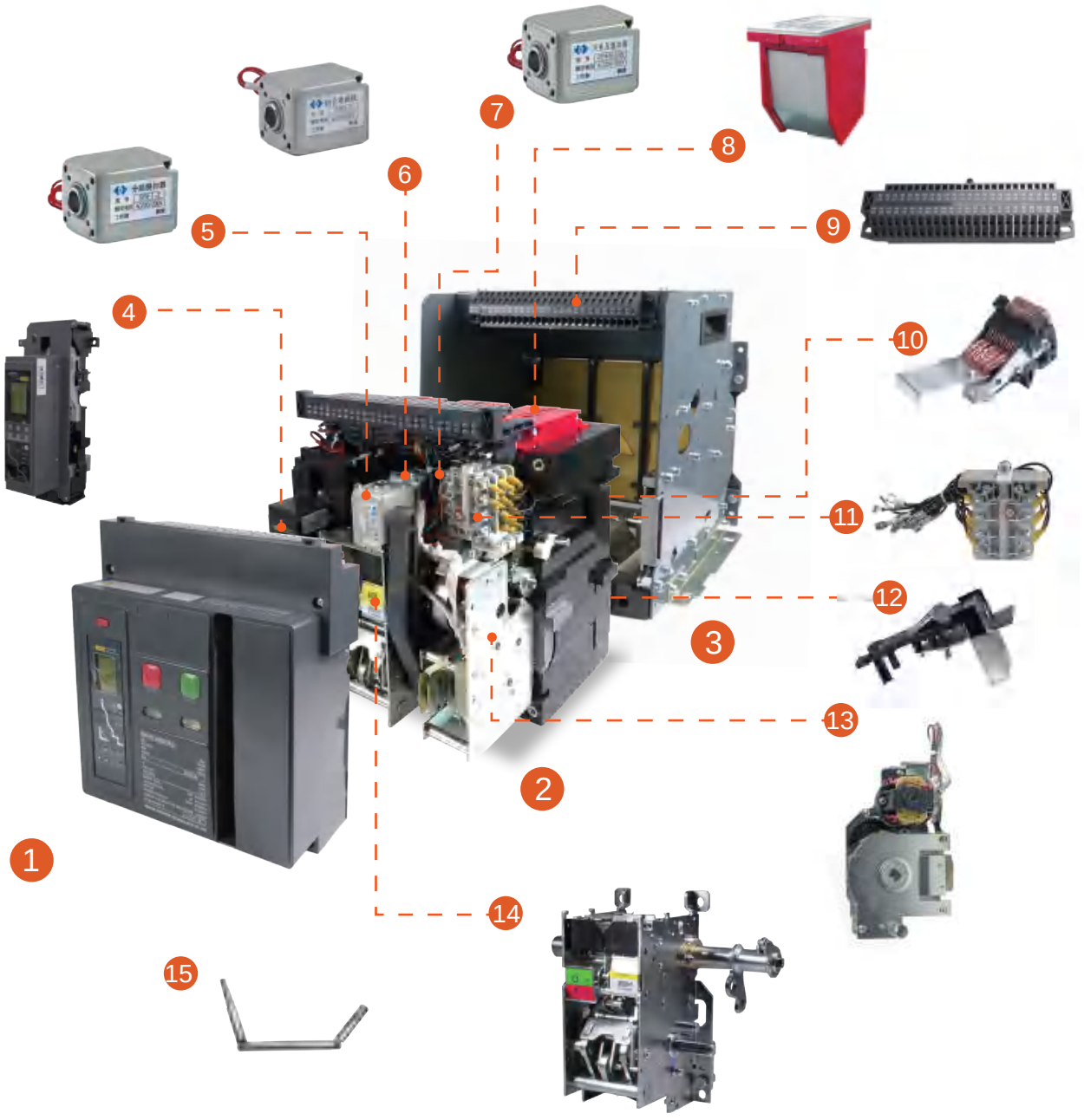
Enterprise code	MG
Air circuit breaker	W
Design code	6
Frame Size	1600A,2000A,3200A,4000A,6300A,7500A
Number of pole	3P,4P

MG	W	6	-	□	/	□

Synopsis Of Structure

External Structure

Internal Structure



DRAW-OUT CIRCUIT BREAKER

1 Face	2 Body	3 Drawer base	4 Intelligent controller	5 Shunt release
6 Closing electromagnet	7 Under-voltage release	8 Arc chamber	9 Secondary terminals	10 Moving contact
11 Auxiliary switch	12 Fixed contact	13 Electric operating mechanism	14 Energy storage mechanism	15 Handle crank

Intelligent Controller

Characteristics			MGA6-2M	MGA6-3M	MGA6-3H
	Picture of product				
Rated current	Frame 1600	200,400,630,800,1000,1250,1600	O	O	O
	Frame 2000	630,800,1000,1250,1600,2000	O	O	O
	Frame 3200	1600,2000,2500,2900,3000,3200	O	O	O
	Frame 4000	2000,2500,2900,3000,3200,3600,4000	O	O	O
	Frame 6300	4000,5000,6300	O	O	O
	Frame 7500	5000,6300,7500	O	O	O
Auxiliary power supply voltage	220V AC		O	O	O
	380V AC		O	O	O
	90-300V DC		O	O	O
	50VAC (70V DC) ~480V AC (650V DC)		O	O	O
	AC200-AC450 universal use		O	O	O
	24V DC		O	O	O
	48V DC		O	O	O
	Other voltage can be customized		O	O	O
Human-computer interface	Display	LED current column	—	—	—
		Nixie+LED	√	—	—
		Segment LCD	—	—	—
	Operation	Chinese dot-matrix LCD+LED	—	√	√
		Button	√	√	√
		Rotary switch + button	—	—	—
	Language:Chinese/button		√	√	√
Communication functions	Modbus-RTU		—	—	√
	Profibus-DP		—	—	O
	HPLC (DL/T 645)		—	—	O
	wifi		—	—	O
	Device NET		—	—	O
	CAN		—	—	O
	Ethernet		—	—	O
	Profi NET		—	—	O
	IEC61850		—	—	O
	Bluetooth		—	—	O
	4G-LTE		—	—	O
Protection functions	Overload Long time delay (Ir) (Multiple curves are available)		√	√	√
	Short-circuit short time delay (Isd)		√	√	√
	Short-circuit instantaneous (Ii)		√	√	√
	Current unbalance protection		√	√	√
	Ground fault protection (Ig)	Residual ground fault protection	√	√	√
		Zero sequence ground-fault protection			
		Residual ground fault protection by default			
	Residual current protection (I△n)		O	O	O
	Neutral line overcurrent protection (3P+N, 4P)		O	O	O
	Overload pre-alarm		—	√	√
	Making Current Release (MCR)		O	√	√
	Out-of-limit tripping protection (HSISC)		O	√	√
	Overvoltage protection (Off by default)		—	√	√

Intelligent Controller

Characteristics			MGA6-2M	MGA6-3M	MGA6-3H
Protection functions	Undervoltage protection (Off by default)		—	√	√
	Voltage unbalance protection (Off by default)		—	√	√
	Overfrequency protection (Off by default)		—	√	√
	Underfrequency protection (Off by default)		—	√	√
	Phase-sequence protection (Off by default)		—	√	√
	Reverse power protection (Off by default)		—	√	√
	Required current protection (Off by default)		—	√	√
	Load monitoring		√	√	√
	Zone interlocking		O	O	O
	Voltage-checking protection		—	O	O
	Overload reopening		—	O	O
	Generatrix/contact temperature protection		—	O	O
	Time-phased required current protection		—	—	—
	Thermal memory		√	√	√
	Payment (payment reminder) management		—	O	O
Measurement functions	Current	Three-phase current, maximum of instantaneous value, unbalance rate	√	√	√
		Ground/leakage current	√	√	√
		Neutral current	O	O	O
	Voltage: Line voltage, Phase voltage,average voltage, unbalance rate		—	√	√
	Frequency		—	√	√
	Power: active power		—	√	√
	Power: reactive power, apparent power		—	√	√
	Power factor		—	√	√
	Electrical energy: active electrical energy, reactive electrical energy, apparent electrical energy		—	√	√
	Phase-sequence		—	√	√
	Waveform capture		—	√	√
	Harmonic measurement		—	O	O
	System clock		—	√	√
	Long time delay heat capacity		—	√	√
Maintenance functions	Self-test function: overtemperature of controller, memory fault, A/D sampling		√	√	√
	Test function		√	√	√
	Button lock function		—	√	√
	Replacement with electricity		—	—	—
	Remote reset		O	O	O
	I/O faultily tripping function		O	O	O
	Contact wear rate		—	√	√
	Historic records	Tripping records	√ 10 times	√ 10 times	√ 10 times
		Alarm records	—	√ 10 times	√ 10 times
		Replacement records	—	√ 10 times	√ 10 times
Contact output	Quad programmble contact output		O	O	√
Data interface	Hand-held programmer interface		O	—	—

Notice: “√” means basic function; “O” means optional function; “ ”means no such function

Ratings and Specifications

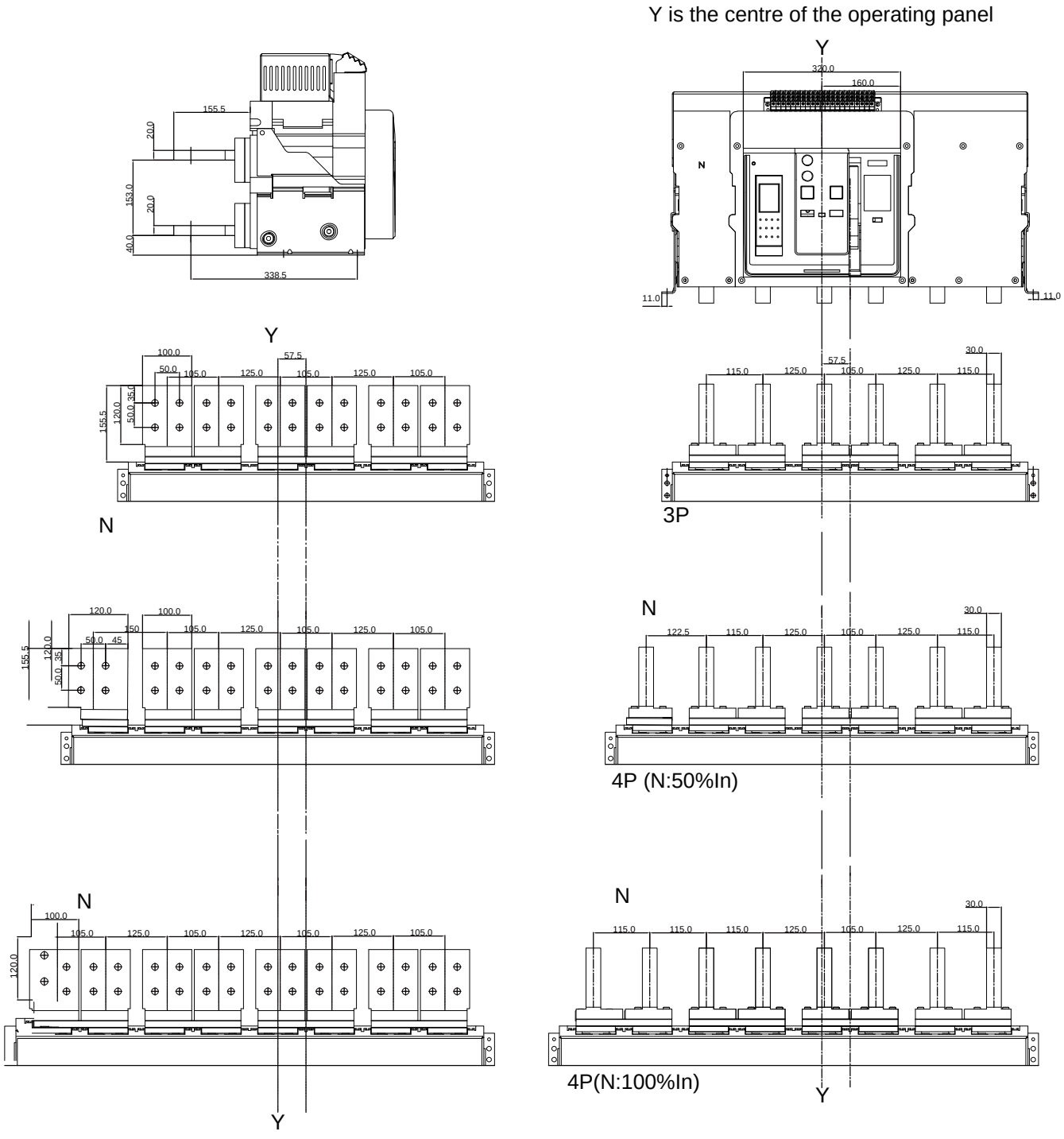
Frame Size			
Characteristics	MGW6-6300		
Frame size rated current In(A)	6300		
Number of poles	3,4		
Rated current In(A)	4000,5000,6300		
Rated voltage Ue(V)	50/60Hz AC 380V, 400V, 415V, 440V		
Insulation voltage Ui(V)	1000V		
Impulse withstand voltage Uimp(V)	12		
Rated current of N-pole In(A)	50%/100%In		
Ultimate breaking capacity Icu(kA)	380/400/415/440	135/150	
Operation breaking capacity Ics(kA)	380/400/415/440	135/150	
Short-time withstand current (1s) RMS Icw(kA)	380/400/415/440	135/150	
Max total tripping time(ms) without time delay		12-18	
Closing time(ms)	60(max)		

Characteristics			MGW6-6300
	Electrical life		2500
	Mechanical life	Maintenance free	10000
		Maintenance required	15000
Connection mode			4000,5000A Horizontal,Vertical
			6300A Vertical
Overall dimension H(height)XW(width)XL(thickness)		Fixed type 3P	409.5X767X295
		Fixed type 4P	409.5X997X295
		Drawout type 3P	497X757X398
		Drawout type 4P	497X987X398

SAFE GREEN SMART

MGW6 Series Overall and Mounting Dimensions

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

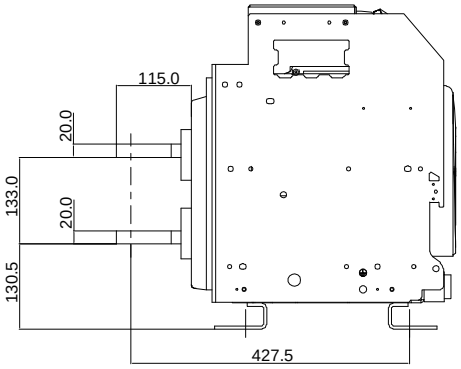


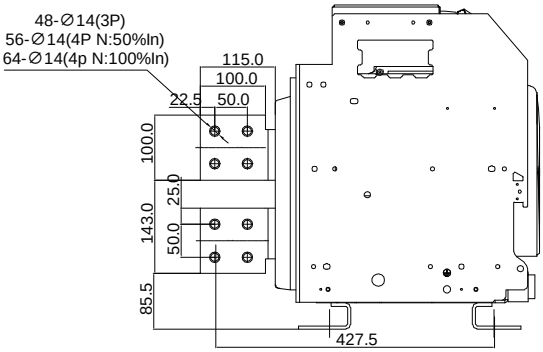
In=4000A 5000A Horizontal

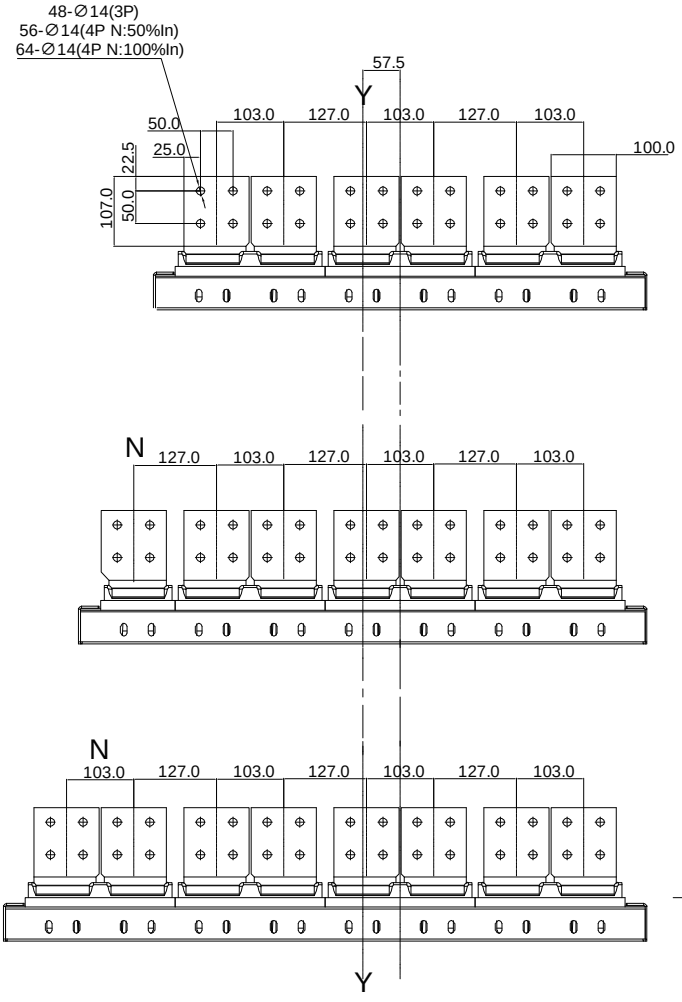
SAFE GREEN SMART

MGW6 Series Overall and Mounting Dimensions

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







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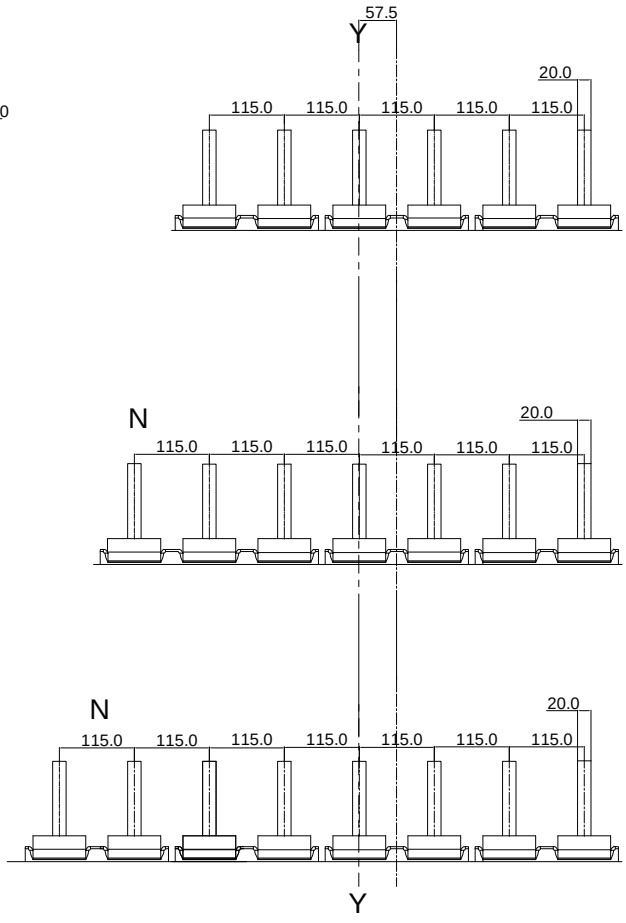
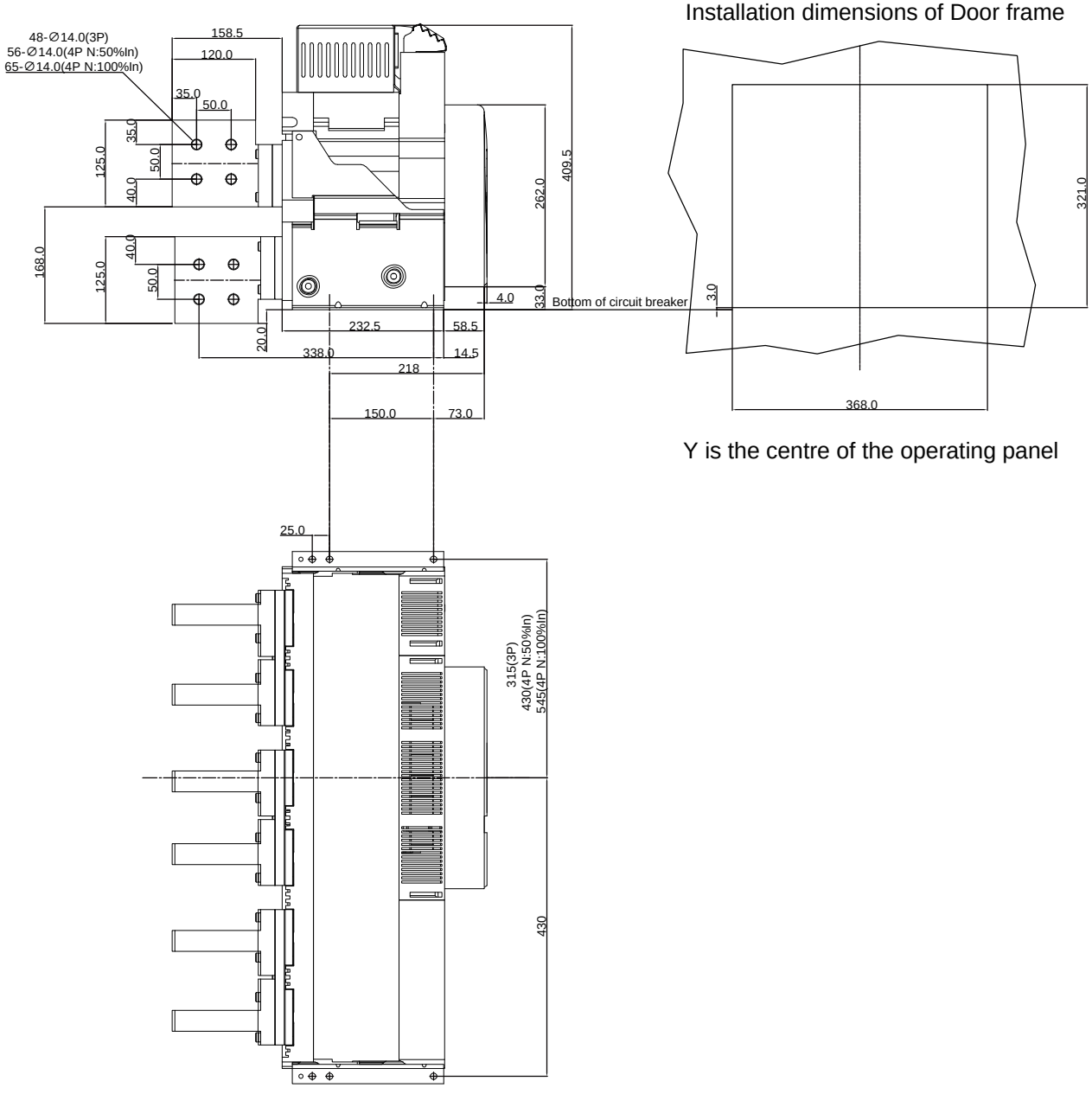


In=4000A 5000A

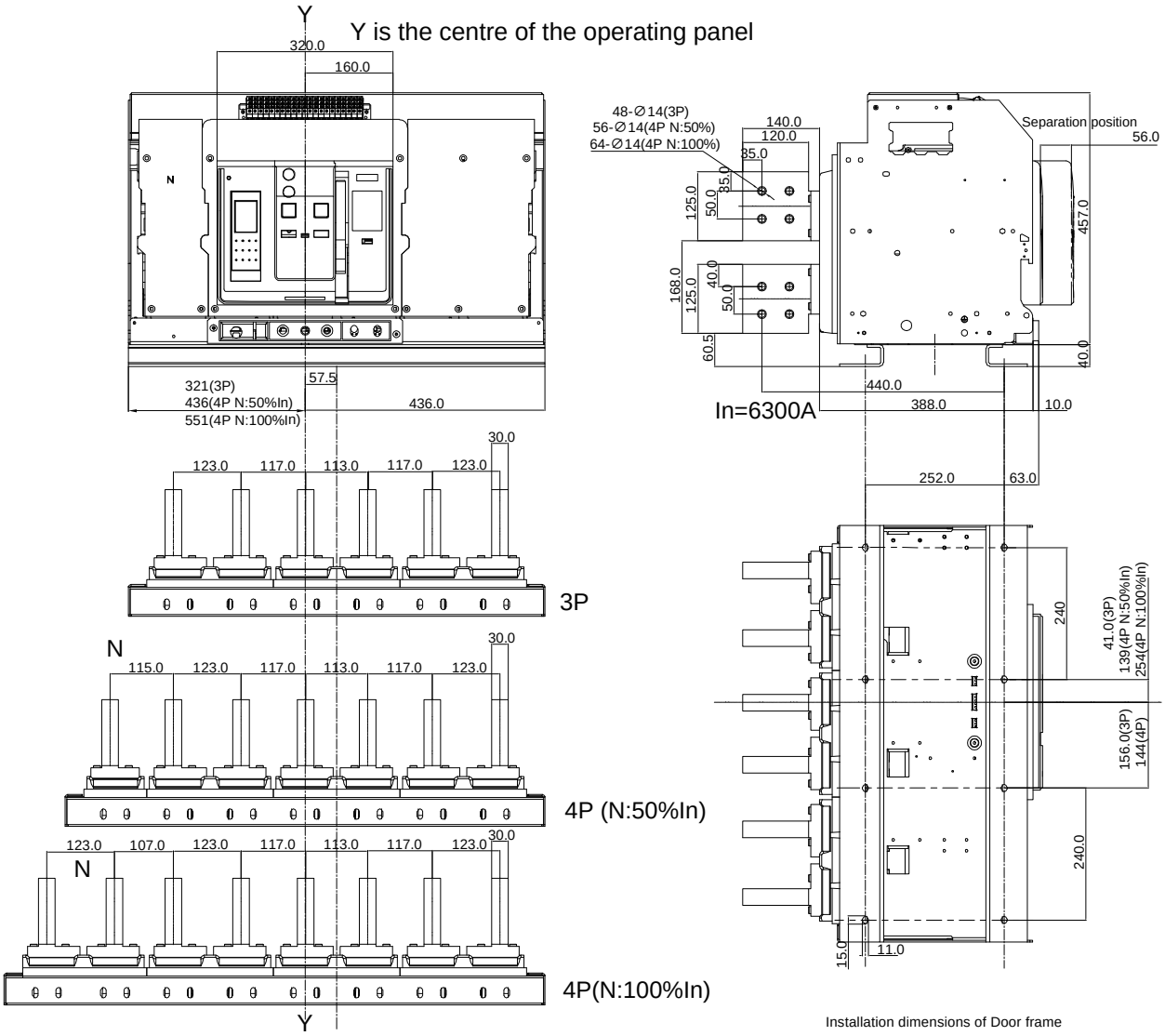
MGW6 Series Overall and Mounting Dimensions

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

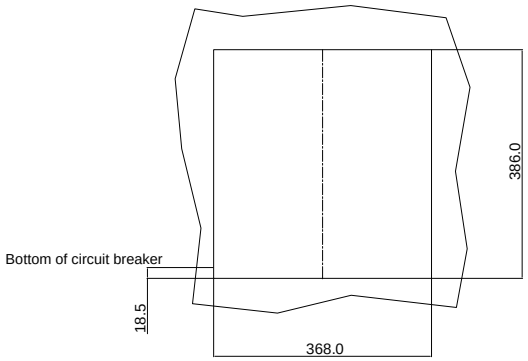


MGW6 Series Overall and Mounting Dimensions

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



Installation dimensions of Door frame



Y is the centre of the operating panel