



Protection feature of power distribution breakers

Rated current of the breaker (A)	Tripping time of the thermal magnetic release ambient temp.40 ± 5 °C		Electromagnetic release tripping current(A)
	1.05In(cold state)	1.3In(heat state)	
	not tripping time (h)	tripping time(h)	
10≤In≤63	≥1	< 1	10In ± 20%
63 < In≤100	≥2	< 2	
100 < In≤800	≥2	< 2	5In ± 20% 10In ± 20%

Protection feature of motor protection breakers

Rated current of the breaker (A)	Tripping time of the thermal magnetic release ambient temp.40 ± 5 °C				Electromagnetic release tripping current(A)
	1.05In(cold state)not tripping time(h)	1.3In(heat state) tripping time(h)	1.3In(heat state)tripping time(min)	7.2In(heat state)tripping time(min)	
10≤In≤225	≥2	< 2	4	4 < Tp≤10	12In ± 20%
225 < In≤800			8	6 < Tp≤20	

Technical datasheet

Code	Frame current (A)	Rated current(A)	Rated working voltage(V)	Rated insulation voltage(V)	Icu	Ics	Outline sizes			Mounting sizes (front connection)		
							L	W3/4P	H	A	B	4- φ d
VCM1-63L	63	(6)、10、16、20、25、 32、40、50、63	AC400V	AC500V	25	18	135	78	73.5	25	117	φ 3.5
VCM1-63M					50	35	135	78/103	81.5			
VCM1-100L	100	(10)、16、20、25、 32、40、50、63、80、 100	AC690V	AC800V	35	18	150	92	68	30	129	φ 4.5
VCM1-100M					50	35	150	92/122	86			
VCM1-100H					85	50						
VCM1-160L	160	100、125、140、160	AC690V	AC800V	35	18	165	107	86	35	126	φ 4.5
VCM1-160M					50	35	165	107/142	103			
VCM1-160H					85	50						
VCM1-225L	225	100、125、140、160、 180、200、225	AC690V	AC800V	35	18	165	107	86	35	126	φ 4.5
VCM1-225M					50	35	165	107/142	103			
VCM1-225H					85	50						
VCM1-400L	400	225、250、315、350、 400	AC690V	AC800V	50	35	257	150/198	105	44	194	φ 7
VCM1-400M					65	45	257	150	106.5			
VCM1-400H					100	65						
VCM1-630L	630	400、500、630	AC690V	AC800V	50	35	270	182/240	110	58	200	φ 7
VCM1-630M					65	45	270	182	110			
VCM1-630H					100	65	275	210	115.5			
VCM1-800M	800	630、700、800	AC690V	AC800V	75	50	275	210	115.5	70	243	φ 7
VCM1-800H					100	65						

Remarks: all the data for the above 3 forms only for reference, the real data may vary more or less due to different raw materials used, testing conditions,etc.

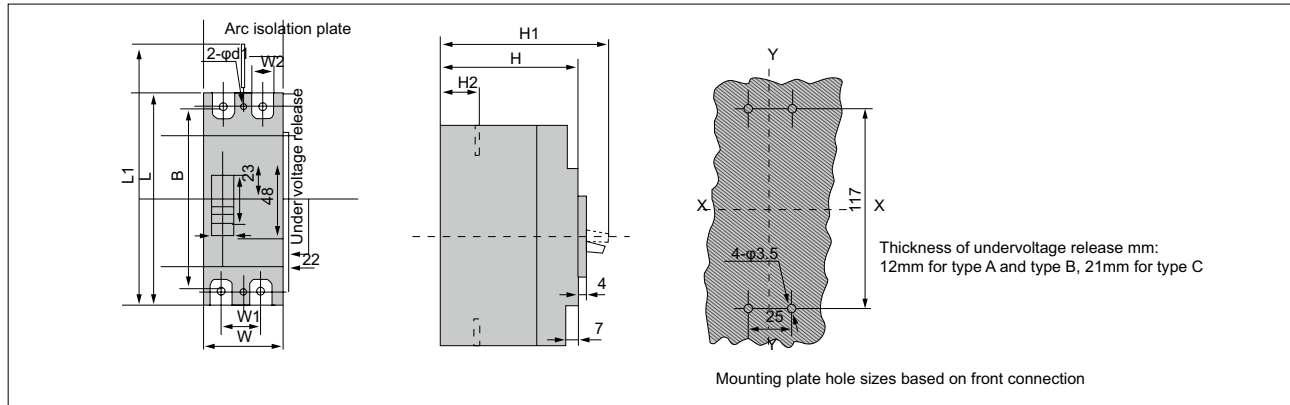
Wire cross sectional area and its matched rated current

Rated current(A)	10	16,20	25	32	40,50	63	80	100	125	160	180,200,225	250	315,350	400
Wire cross sectional area(mm ²)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	185	240

Rated current(A)	Wire		copper bar	
	Cross sectional area(mm ²)	Quantity (pc)	Size(mm × mm)	Quantity (pc)
500	150	2	30 × 5	2
630	185	2	40 × 5	2
700,800	200	2	40 × 5	2

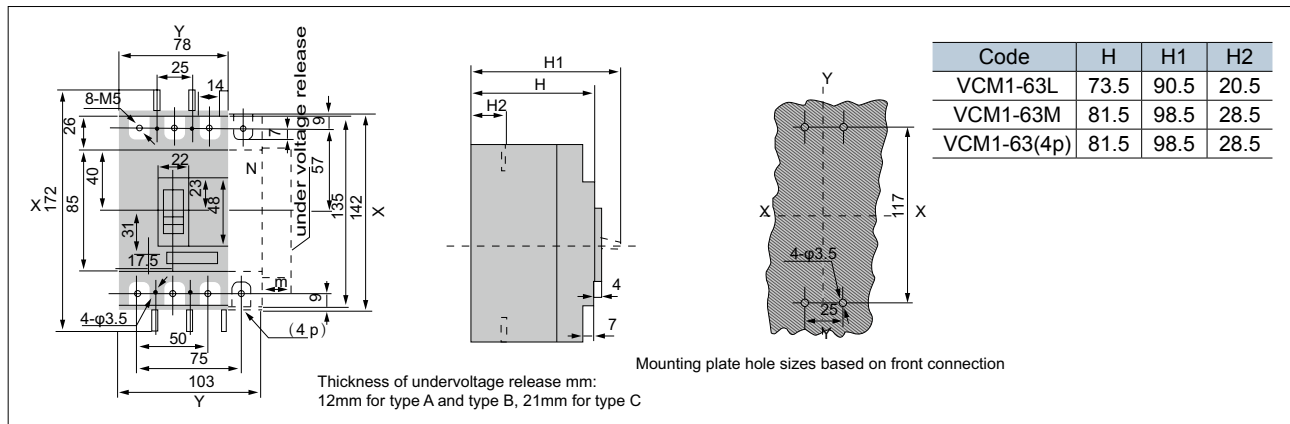
Overall and mounting sizes(mm)

Front connection(2p)X-X,Y-Y,2p breaker center for VCM1-100-250

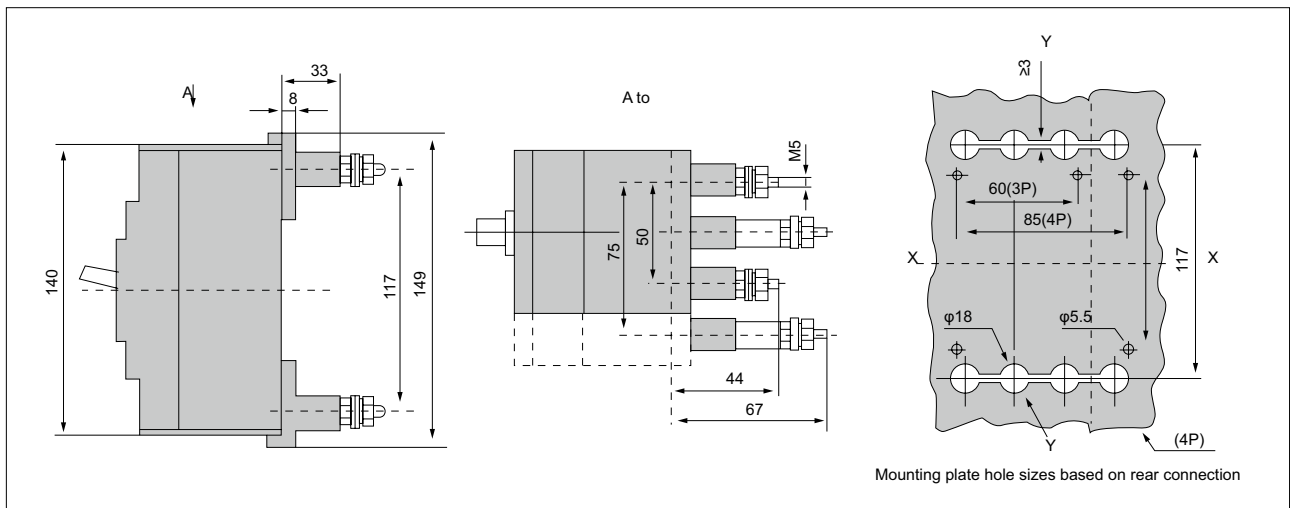


Code	Front connection sizes								Mounting sizes			
	W	L	H	H1	W1	L1	H2	W2	X	Y	B	d
VCM1-100/250	65	150	68	86	30	200	24	17	23	51	129	4.5
VCM1-100/250	74.5	165	86	110	35	230	24	23	23	53	126	5

Front connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-63

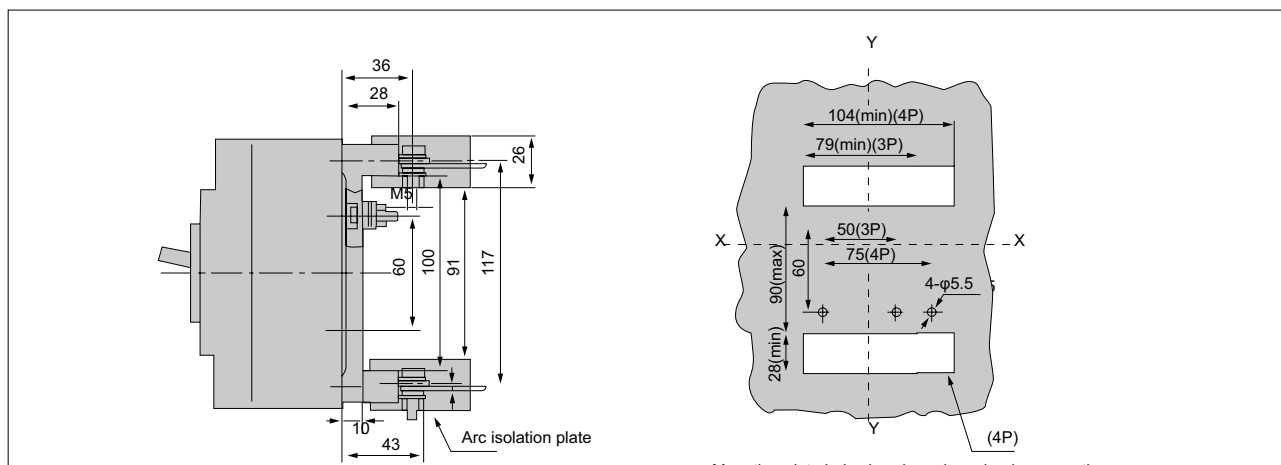


Rear connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-63(L,M)

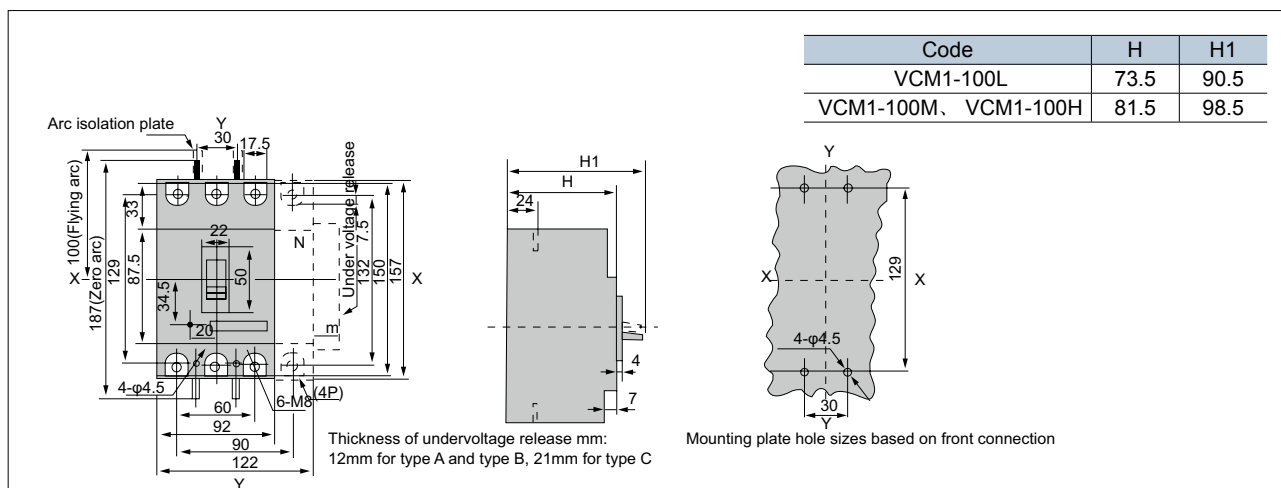


Overall and mounting sizes(mm)

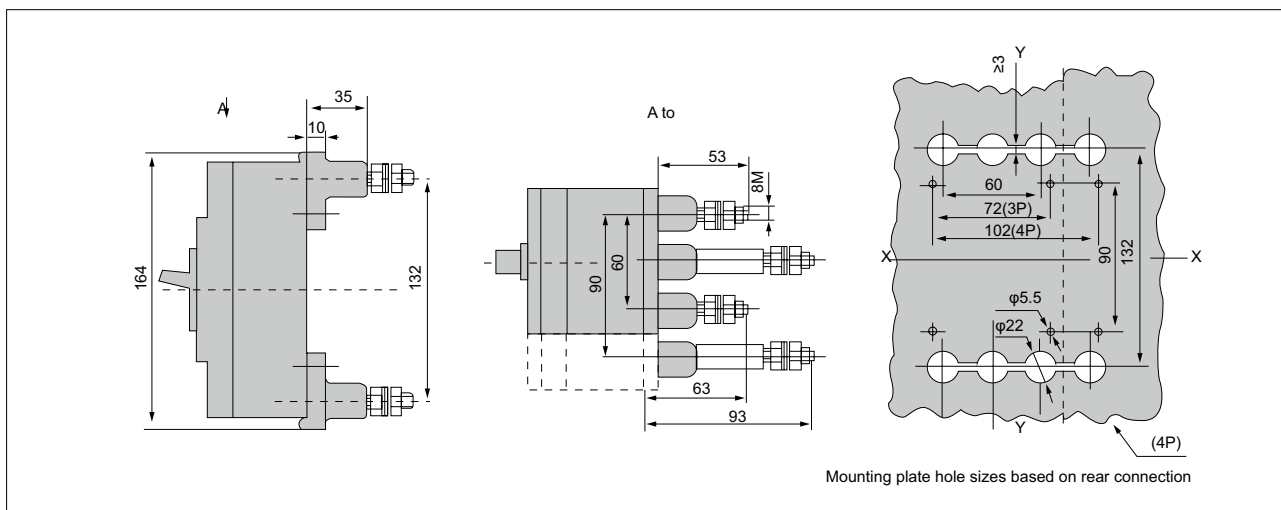
Plug-in connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-63(L,M)



Front connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-100(L,M,H)

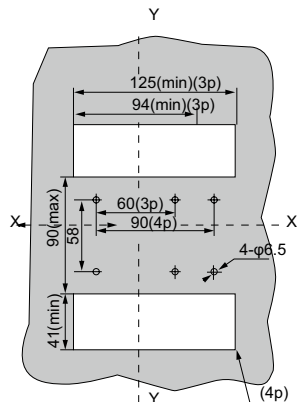
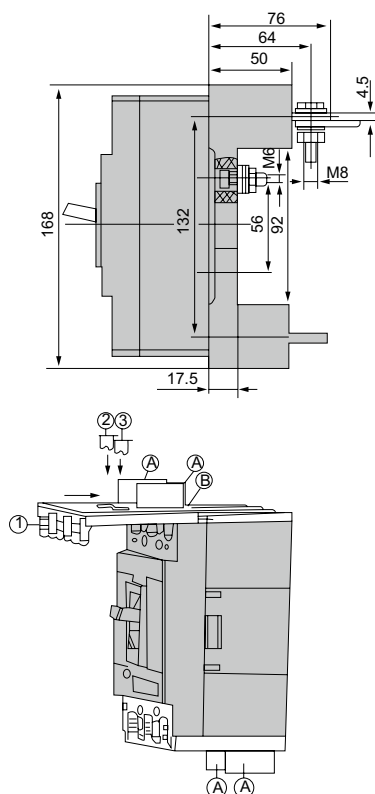


Rear connection(3p,4p)-X,Y-Y,3p breaker center for VCM1-100(L,M,H)

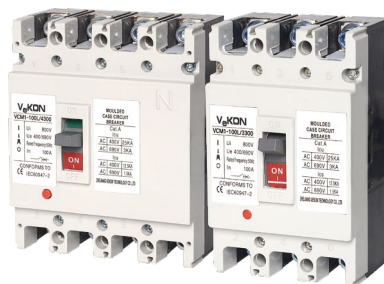


Overall and mounting sizes(mm)

Plug-in connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-100(L,M,H)

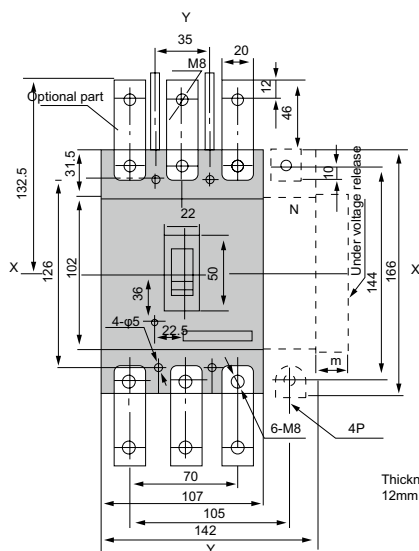


Mounting plate hole sizes based on plug-in connection



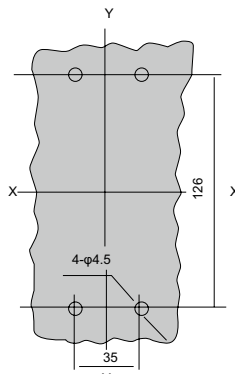
Use instruction of zero arc VCM1-63 and VCM1-100:
1. Push the arc isolator plate (①) to the bottom as per the direction of the arrow;
2. Insert the limiting part (② and ③) to the holes;
3. There are two kinds of zero arc isolator plate: no B for front connection, no A for rear connection.

Front connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-160(L,M,H)



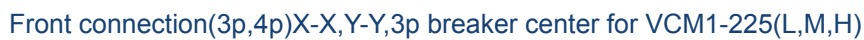
Thickness of undervoltage release mm:
12mm for type A and type B, 21mm for type C

Code	H	H1
VCM1-160L	86	110
VCM1-160M, VCM1-160H	103	127



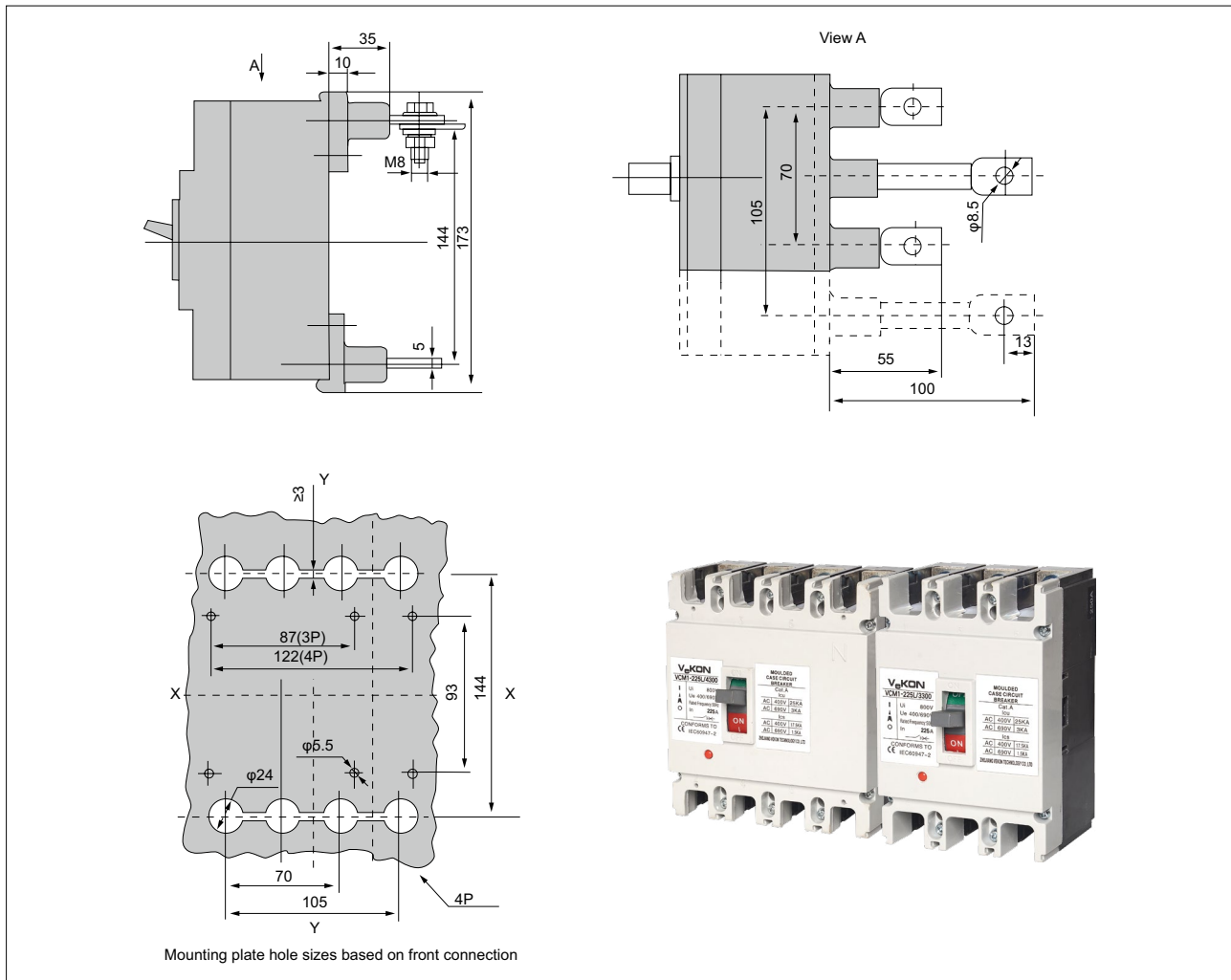
Mounting plate hole sizes based on front connection

Rear connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-160(L,M,H)

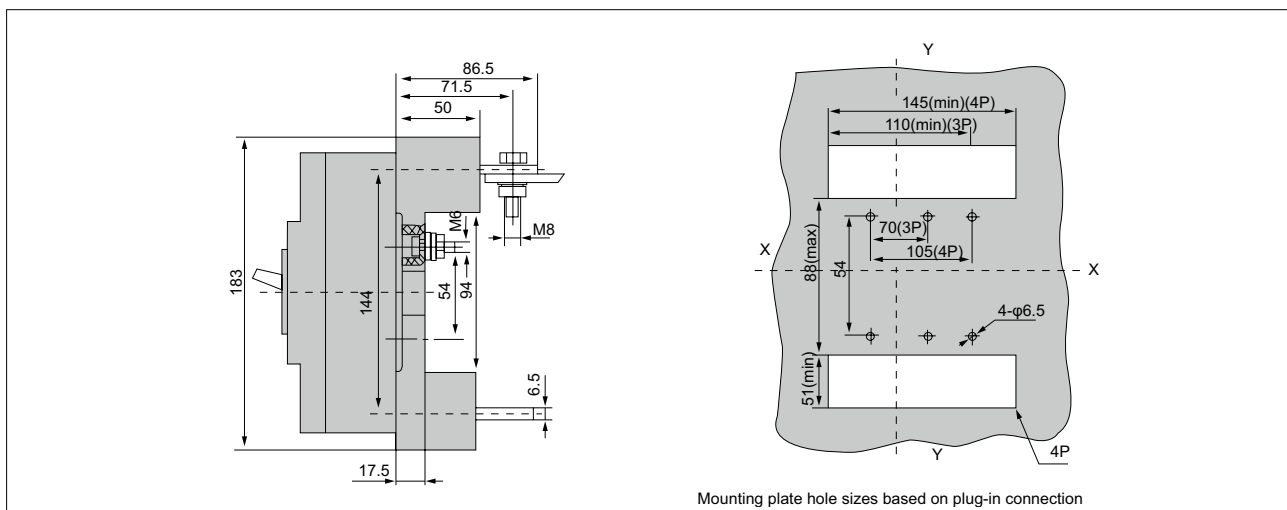


Overall and mounting sizes(mm)

Rear connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-225(L,M,H)

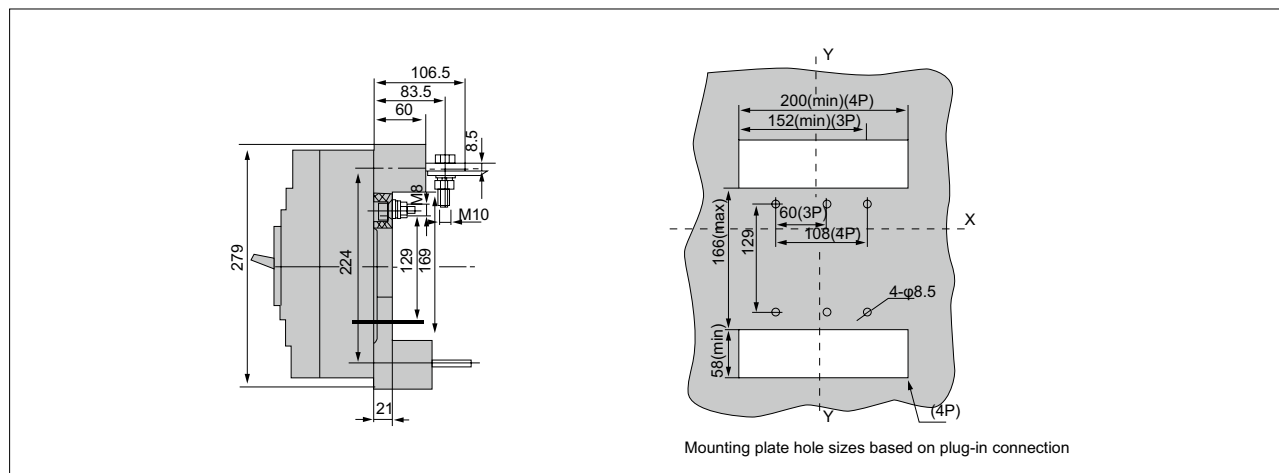
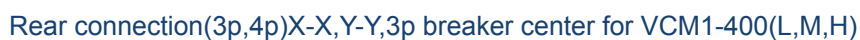


Plug-in connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-225(L,M,H)



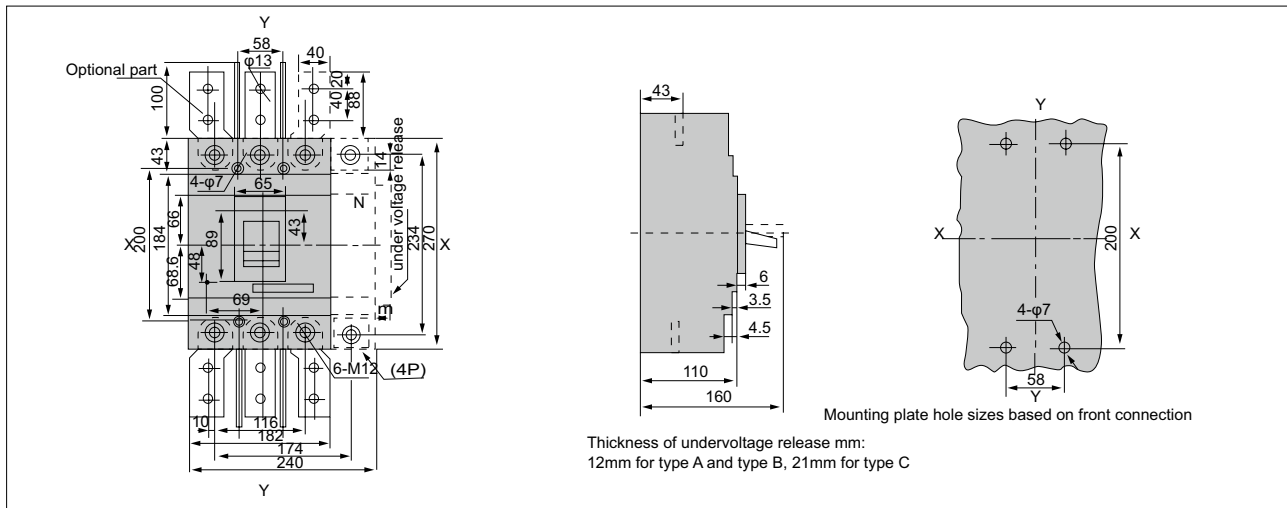
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Front connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-400(L,M,H)

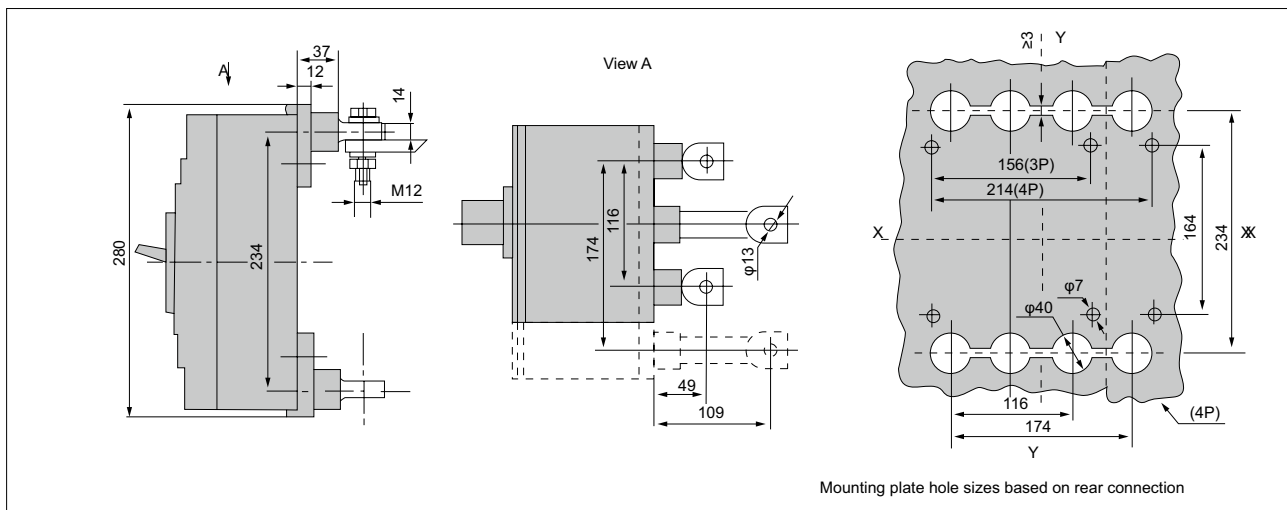


Overall and mounting sizes(mm)

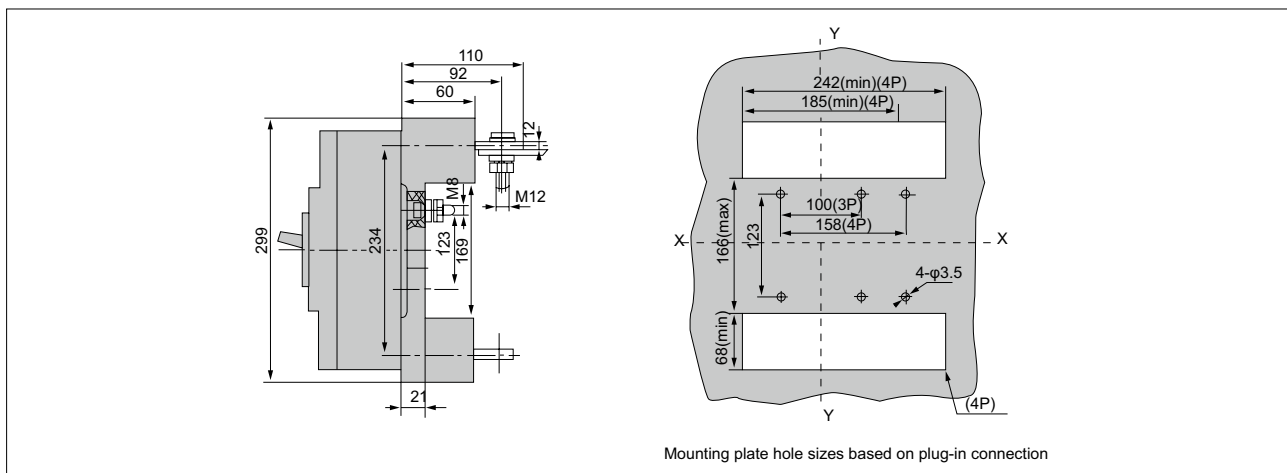
Front connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-630(L,M,H)



Rear connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-630(L,M,H)



Plug-in connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-630(L,M,H)



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Front connection(3p,4p)X-X,Y-Y,3p breaker center for VCM1-800(M,H)

