




# HDM6s Molded Case Circuit Breaker

Standard: IEC/EN 60947-2



## Order Information

Type	Pole	In A	Fixed Thermal Magnetic				Thermo-adjustable	
			L-type	S-Type	M-type	T-Type	M-type	T-Type
<b>HDM6s-63</b> 	3	10	HDM6s063L0103XXXF	HDM6s063S0103XXXF	HDM6s063M0103XXXF	HDM6s063T0103XXXF	-	-
		16	HDM6s063L0163XXXF	HDM6s063S0163XXXF	HDM6s063M0163XXXF	HDM6s063T0163XXXF	-	-
		20	HDM6s063L0203XXXF	HDM6s063S0203XXXF	HDM6s063M0203XXXF	HDM6s063T0203XXXF	-	-
		25	HDM6s063L0253XXXF	HDM6s063S0253XXXF	HDM6s063M0253XXXF	HDM6s063T0253XXXF	-	-
		32	HDM6s063L0323XXXF	HDM6s063S0323XXXF	HDM6s063M0323XXXF	HDM6s063T0323XXXF	-	-
		40	HDM6s063L0403XXXF	HDM6s063S0403XXXF	HDM6s063M0403XXXF	HDM6s063T0403XXXF	-	-
		50	HDM6s063L0503XXXF	HDM6s063S0503XXXF	HDM6s063M0503XXXF	HDM6s063T0503XXXF	-	-
	63	HDM6s063L0633XXXF	HDM6s063S0633XXXF	HDM6s063M0633XXXF	HDM6s063T0633XXXF	-	-	
	4	10	-	-	HDM6s063M0104XXXF	HDM6s063T0104XXXF	-	-
		16	-	-	HDM6s063M0164XXXF	HDM6s063T0164XXXF	-	-
		20	-	-	HDM6s063M0204XXXF	HDM6s063T0204XXXF	-	-
		25	-	-	HDM6s063M0254XXXF	HDM6s063T0254XXXF	-	-
		32	-	-	HDM6s063M0324XXXF	HDM6s063T0324XXXF	-	-
		40	-	-	HDM6s063M0404XXXF	HDM6s063T0404XXXF	-	-
50		-	-	HDM6s063M0504XXXF	HDM6s063T0504XXXF	-	-	
63	-	-	HDM6s063M0634XXXF	HDM6s063T0634XXXF	-	-		
<b>HDM6s-100</b> 	3	16	HDM6s100L0163XXXF	HDM6s100S0163XXXF	-	-	HDM6s100M0163XXX3	HDM6s100T0163XXX3
		20	HDM6s100L0203XXXF	HDM6s100S0203XXXF	-	-	-	-
		25	HDM6s100L0253XXXF	HDM6s100S0253XXXF	-	-	HDM6s100M0253XXX3	HDM6s100T0253XXX3
		32	HDM6s100L0323XXXF	HDM6s100S0323XXXF	-	-	-	-
		40	HDM6s100L0403XXXF	HDM6s100S0403XXXF	-	-	HDM6s100M0403XXX3	HDM6s100T0403XXX3
		50	HDM6s100L0503XXXF	HDM6s100S0503XXXF	-	-	-	-
		63	HDM6s100L0633XXXF	HDM6s100S0633XXXF	-	-	HDM6s100M0633XXX3	HDM6s100T0633XXX3
		80	HDM6s100L0803XXXF	HDM6s100S0803XXXF	-	-	-	-
	100	HDM6s100L1003XXXF	HDM6s100S1003XXXF	-	-	HDM6s100M1003XXX3	HDM6s100T1003XXX3	
	4	16	-	-	-	-	HDM6s100M0164XXX3	HDM6s100T0164XXX3
		25	-	-	-	-	HDM6s100M0254XXX3	HDM6s100T0254XXX3
		40	-	-	-	-	HDM6s100M0404XXX3	HDM6s100T0404XXX3
		63	-	-	-	-	HDM6s100M0634XXX3	HDM6s100T0634XXX3
100		-	-	-	-	HDM6s100M1004XXX3	HDM6s100T1004XXX3	
<b>HDM6s-250</b> 	3	100	HDM6s250L1003XXXF	HDM6s250S1003XXXF	-	-	-	-
		125	HDM6s250L1253XXXF	HDM6s250S1253XXXF	-	-	HDM6s250M1253XXX3	HDM6s250T1253XXX3
		160	HDM6s250L1603XXXF	HDM6s250S1603XXXF	-	-	HDM6s250M1603XXX3	HDM6s250T1603XXX3
		180	HDM6s250L1803XXXF	HDM6s250S1803XXXF	-	-	-	-
		200	HDM6s250L2003XXXF	HDM6s250S2003XXXF	-	-	HDM6s250M2003XXX3	HDM6s250T2003XXX3
		225	HDM6s250L2253XXXF	HDM6s250S2253XXXF	-	-	-	-
		250	HDM6s250L2503XXXF	HDM6s250S2503XXXF	-	-	HDM6s250M2503XXX3	HDM6s250T2503XXX3
	4	125	-	-	-	-	HDM6s250M1254XXX3	HDM6s250T1254XXX3
		160	-	-	-	-	HDM6s250M1604XXX3	HDM6s250T1604XXX3
		200	-	-	-	-	HDM6s250M2004XXX3	HDM6s250T2004XXX3
		250	-	-	-	-	HDM6s250M2504XXX3	HDM6s250T2504XXX3



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## Technical Data

### Fixed Thermal Magnetic

#### Basic Information (IEC/EN60947-2)

Frame Size	AF	63						100				250				
		3P			4P			3P		4P		3P		4P		
Number of Poles		L	S	M	T	M	T	L	S	L	S	L	S	L	S	
Breaking Capacity Level																
Rated Ultimate Shot-circuit Breaking Capacity Icu (kA rms)		25	18	50	30	50	30	35	26	35	26	35	26	35	26	
Rated Service Shot-circuit Breaking Capacity Ics (kA rms)		75%	100%	50%	100%	50%	100%	75%	100%	75%	100%	75%	100%	75%	100%	
Mechanical Durability On-off Cycle		8500						8500				7000				
Electrical Durability On-off Cycle		1500						1500				1000				
Tripping Unit																
Rated Current (A) In		10/16/20/25/32/40/50/63						16/20/25/32/40/50/63/80/100				-	100/125/160/180/200/225/250			
Accessory																
Indication Accessories																
OF																
SD																
Control Accessories																
MX (AC400, 230V, DC220V)																
MN (AC400, 230V)																
Extended Rotary Handle (Round and Square)																
AC Motor Mechanism (AC400, 230V)																
Mechanical Interlock																
Mounting & Connection																
Fixed, Front Connection																
Fixed, Rear Connection																
Plug-in, Rear Connection																
Plug-in, Front Connection																
Drawer-out, Rear Connection																
Connection																
Spreader																
Protection																
Phase Barrier																
Installation Information		See Page 75						See Page 76				See Page 77				

'  ' with this option  
 ' - ' without this option

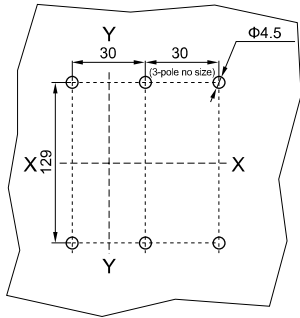
# HDM6s Molded Case Circuit Breaker

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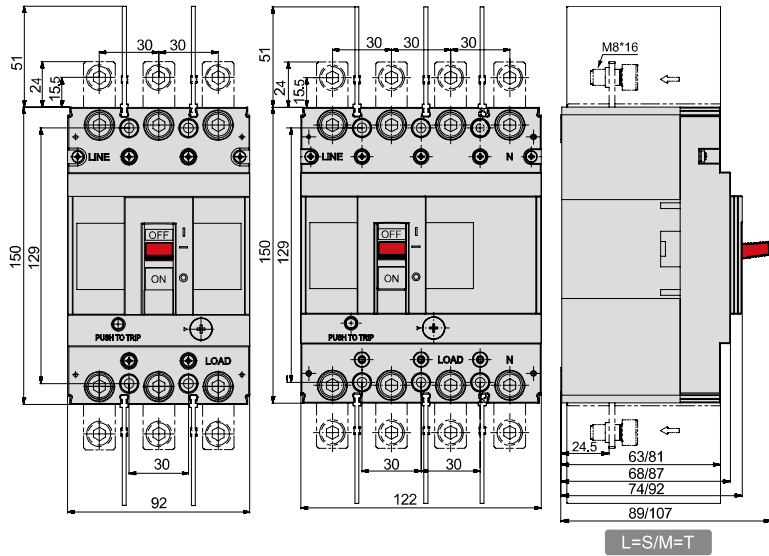
## HDM6s100 Installation Dimension

- Chart of Fixed Front Connection Installation Hole

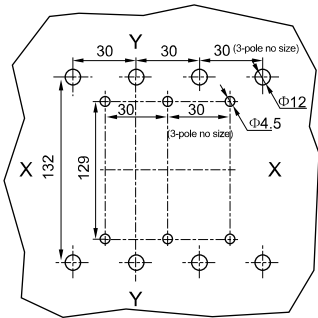


Remark: X-X, Y-Y is the center of 3-pole circuit breaker

- Installation Dimension of Fixed Front Connection

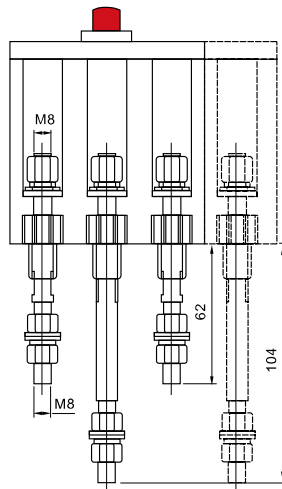


- Chart of Fixed Rear Connection Installation Hole

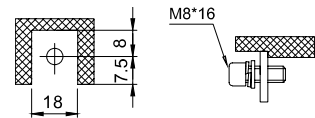


Remark: X-X, Y-Y is the center of 3-pole circuit breaker

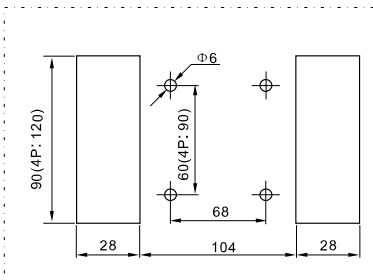
- Fixed Rear Connection Wiring



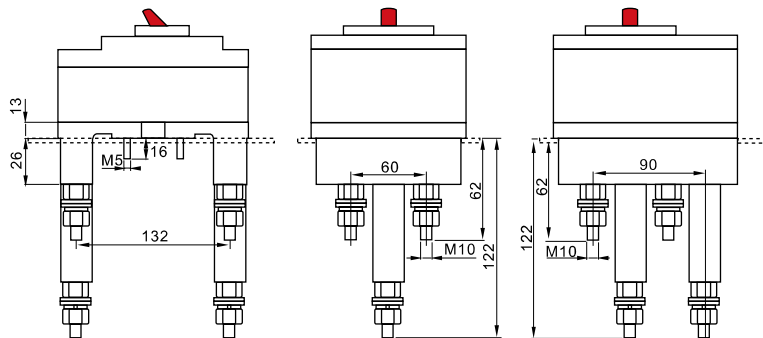
- Chart of Terminal Connection Installation Hole



- Chart of Plug-in Rear Connection Installation Hole



- Plug-in Rear Connection Wiring



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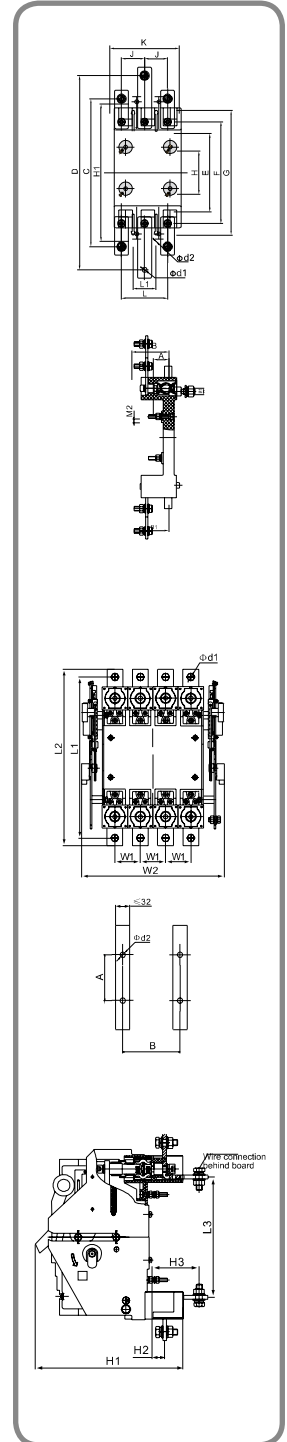
Plug-in Front Connection Installation Dimension (HDM6s100 and HDM6s250)

Equipped with Circuit Breaker	Pole No.	Appearance and Installation Dimension (mm)								
		A	B	B1	C	D	E	F	G	H
HDM6s100	3P	20	48	39	195	252	102	132	162	56
	4P	20	48	39	195	252	102	132	162	56
HDM6s250	3P	23	53	42	204	304	108	144	180	54
	4P	23	53	42	204	304	108	144	180	54

Equipped with Circuit Breaker	Pole No.	Appearance and Installation Dimension (mm)								
		H1	J	K	L	L1	M1	M2	Φd1	d2
HDM6s100	3P	178	30	90	60	30	M8	M5	Φ6.5	M5
	4P	178	30	120	90	60	M8	M5	Φ6.5	M5
HDM6s250	3P	196	35	107	70	35	M8	M5	Φ8.5	M5
	4P	196	35	142	105	70	M8	M5	Φ8.5	M5

Plug-in Front Connection Installation Dimension (HDM6s100 and HDM6s250)

Equipped with Circuit Breaker	Pole No.	Appearance Dimension (mm)								Installation Dimension			
		L1	L2	L3	H1	H2	H3	W1	W2	Φd1	A	B	Φd2
HDM6s400	3P	311	340	205	253	17.5	77	44	211	Φ11	88	141	Φ6.5
	4P	311	340	205	253	17.5	77	44	255	Φ11	132	141	Φ6.5
HDM6s630	3P	341	381	211	282	17.5	92	58	253	Φ13	116	140	Φ6.5
	4P	341	381	211	282	17.5	92	58	311	Φ13	174	140	Φ6.5
HDM6s800	3P	367	410	241	238	26	73	70	289	Φ13	140	131	Φ6.5
	4P	367	410	241	238	26	73	70	359	Φ13	210	131	Φ6.5



# HDM6s Molded Case Circuit Breaker

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## HDM6s 63A-800A Fixed and Plug-in Circuit Breaker Connection Hole-opening Dimension

Type of Circuit Breaker	Pole No.	Exposure of Front Cover and Pull-out Handle			Exposure of Pull-out Handle Only		
		W1	L1	L11	W2	L2	L21
HDM6s63	3P	76	77	38.5	29	53	27
	4P	101	77	38.5	29	53	27
HDM6s100	3P	92	88	42	35	60	30
	4P	122	88	42	35	60	30
HDM6s250	3P	107	102	51	35	60	30
	4P	142	102	51	35	60	30
HDM6s400	3P	140	180	90	61	102	53
	4P	184	180	90	61	102	53
HDM6s630	3P	182	180	90	65	102	53
	4P	240	180	90	65	102	53
HDM6s800	3P	210	200	100	65	102	51
	4P	280	200	100	65	102	51

## Safety Distance

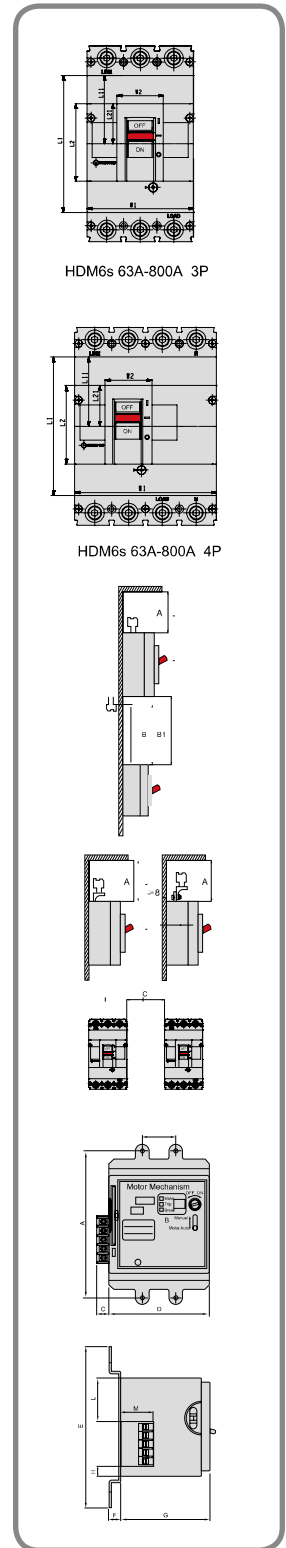
Type of Circuit Breaker	A (mm)	B (mm)	B1 (mm)	C (mm)
HDM6s63	60	60		30
HDM6s100	60	60		30
HDM6s250	60	60	Length of Exposed	30
HDM6s400	110	110	Conductor + B	70
HDM6s630	110	110		70
HDM6s800	110	110		70

Remark: The distance between the products must meet the requirements of C distance even if products have accessories

## Installation Dimension

### AC Motor Mechanism

Type of Circuit Breaker	A	B	C	D	E	F	G	H	L	M
HDM6s63	117	25	11	76	128	2	80	8.5	38.5	28.5
HDM6s100	129	30	11	90	144	14	80	8.5	38.5	28.5
HDM6s250	126	35	11	104	138	13	80	8.5	38.5	28.5
HDM6s400	215	44	11	140	232	22	112	12	97.5	28.5
HDM6s630	200	58	11	140	216	17	112	12	97.5	28.5
HDM6s800	243	70	11	150	260	16	112	12	97.5	28.5



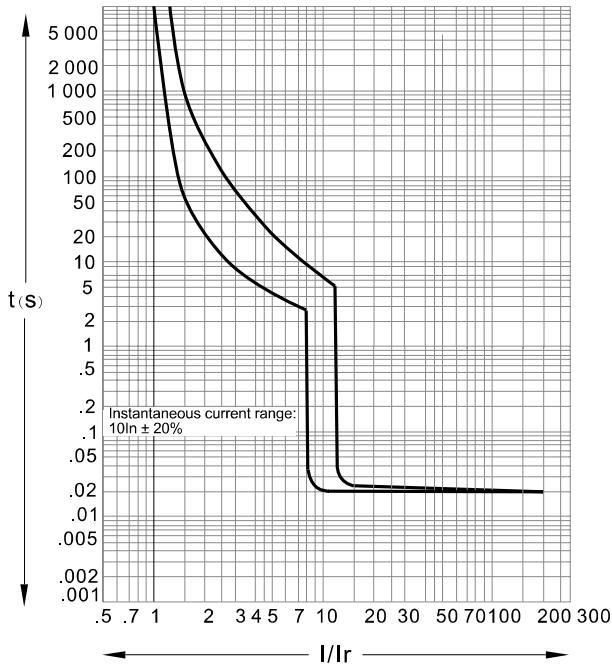
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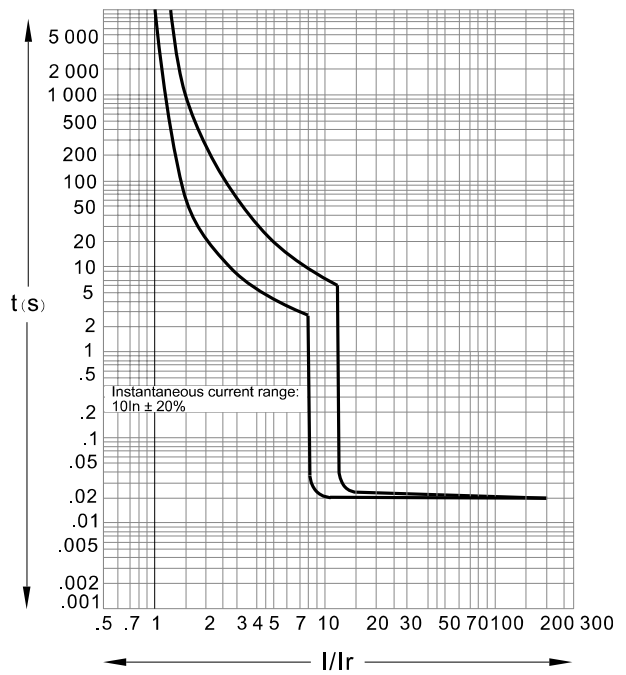


## Tripping Release Curve

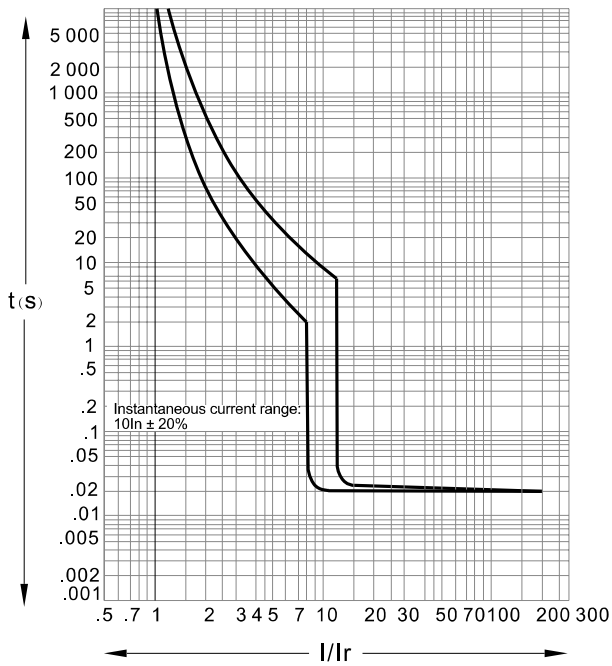
● HDM6s63 10A-63A, the black line is used for the distribution.



● HDM6s100 16A-50A, the black line is used for the distribution.



● HDM6s100 63A-100A, the black line is used for the distribution.



● HDM6s250 100A-250A, the black line is used for the distribution.

