

Heart for the world, electricity for the night

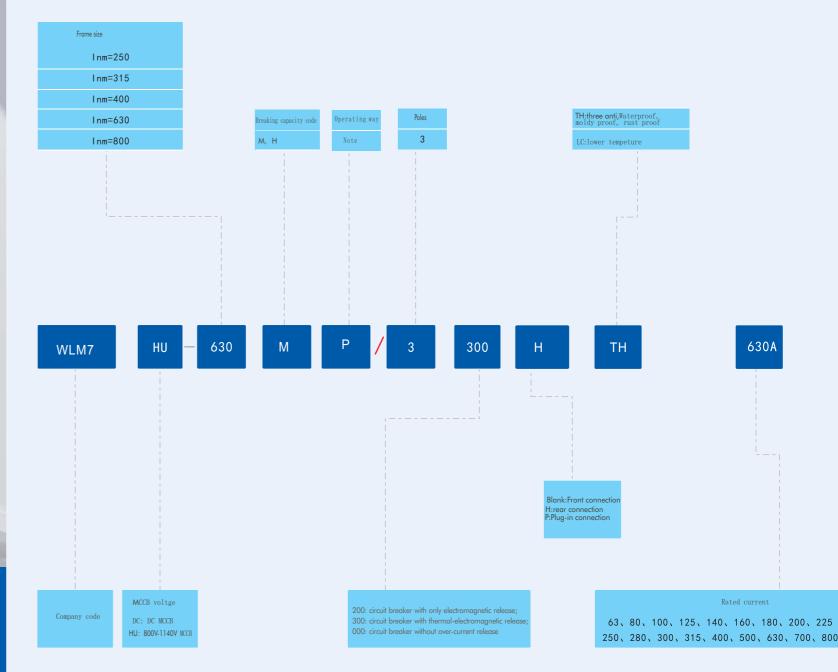
Solar Moulded Case Circuit Breakers

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Type designation

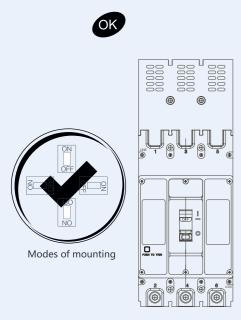


Note 1

- No code: direct operation
- P1: DC3 electric operation(General market version)
- P2: DC6 series electric operation(self-manufacturing)
- ZY1: Rotating handle (manual center type circular handle) (defaulted)
- ZF1: Rotating handle (manual center type square handle)
- ZY2: Rotating handle (hand operated eccentric cirular handle)
- ZF2: Rotating handle (manual eccentric square handle)
- Z3: Rotating handle (hand operated integrated)
- (Only available in 125, 160, and 250)Note:one pole and two pole products only have Direct operation function. The voltage of electric operation is divided into:DC24/DC110V/DC220V/AC400V, defaulted is:AC230V

Mounting of circuit breaker

Modes of mounting



OK	
00000 00000 00000 00000 00000 00000 0000	

The cross-sectional area and corresponding rated current of the connecting wires

Rated current (A)	63	80	100	125	160	180、200 225	250	280、300	315、350	400
Wire cross-sectional area (mm2)	16	25	35	50	70	95	120	185	185	240

Rated current (A)		busbar		busbar
()	Pieces	Wire cross-sectional area (mm2)	Wires	Wire cross-sectional area (mm2)
500	2	150	2	30×5
630	2	185	2	40×5
700	2	240	2	50×5
800	2	240	2	50×5

HU Type Technical data

WLM7HU Moulded Case	e Circuit Breaker	250/315			400		630/800	630/800		
Rated operating current	In (A),40℃	16-20-25-3 -80-100-12 160-180-200	25-140-	280 300-315	250-315-350-400		400-500-630	630-700-800		
Rated insulation voltag	je Ui (V)	1150		1	1250		1250	·		
Rated impulse withstan	id voltage Uimp (kV)	12			12		12			
Rated operational volta	ge Ue (V),AC	415,690,80	0,1000,114	10V	415,690,800,1000).1140V	415,690,800,100	00.1140V		
Breaking capacity code		М	Н		м	Н	М	Н		
Number of poles	3P									
	AC415V					100		100		
	AC690V				60	65	60	65		
Rated ultimate	AC800V	35	50		50	50	50	50		
short-circuit breaking	AC1000V	15	20		20	25	20	30		
cap ac it y lcu(kA)	AC1140V	15	15		15	20	15	20		
	AC415V					100		100		
	AC690V				60	65	60	65		
Rated service breaking	AC800V	35	50		37.5	50	37.5	50		
capacity Ics(kA)	AC1000V	15	20		15	20	20	30		
	AC1140V	15	15		15	15	15	20		
Ann dan J			47.0			10	10	20		
itandard		IEC/EN 609	47-2							
Utilization category		A			А					
Ambient temperature		-40 °C ~+70	°C							
Safety of insulation		-			-					
Arcing distance Mechanical life		0			0					
(C0 recycle)	Maintenance free	20000			15000		10000			
Electrical life (C0 recycle)		1500			1000-5000		1000-5000			
Release units		I								
Distribution protection	1 TM									
Mounting and connect		I					1			
Fixed	Front connection									
	Rear connection									
Plug-in ¹⁾	Front connection									
	Rear connection									
Draw-out ¹⁾	Front connection	_			_					
	Rear connection	_			_					
DIN rail	Front connection	_			_		_			
Dimension										
	Width	107			150		182			
	Height	200					270			
W×H×D	Depth	109			257		125.8			
Weight	Dopon	107			125.8		123.0			
Weight							0			
Weight(kg)/Fixed	3P	3			5.8		8			

The application type: Power distribution type

Power distribution type

rated current(A)	Thermal release (ambig	ent temperature+40 ℃)	Electromagnetic release
Tated Current (A)	1.05In non tripping time(cold state)	1.30 In trip time (hot state)	action current (A)
63	≥1	≤1	10In±20%
63 < In≤800	≥2	≤2	10111220 %

◆ WLM7HU compensation coefficient table

		Total	power loss of 2Pc	oles/3Poles (W)		
Model	Current(A)	Current(A) 板前接线 板后接线		插入式板前接线	插入式板后接线	
WLM7HU-250	250A	62	63.5	66	70	
WLM7HU-315	315A	67	73	75	78	
WLM7HU-400	400A	115	117	120	125	
WLM7HU-630	630A	187	192	100	210	
WLM7HU-800	800A	260	262	265	290	

◆ WLM7HU Electronic circuit breaker rated operational current and temperature compensation coefficient table

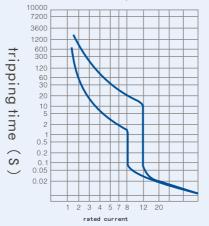
		Ambient temperature °C										
Model	+40°C	+45 °C	+50°C	+55°C	+60°C	+65 °C	+70°C					
WLM7HU-250	1.0In	0.983In	0.965ln	0.94In	0.924In	0.904In	0.882ln					
WLM7HU-315	1.0In	0.982In	0.962ln	0.942In	0.922In	0.901ln	0.880In					
WLM7HU-400	1.0In	0.980In	0.960ln	0.940In	0.918ln	0.898In	0.877In					
WLM7HU-630	1.0In	0.979In	0.958ln	0.937In	0.912In	0.895In	0.872In					
WLM7HU-800	1.0In	0.977In	0.956In	0.931ln	0.905In	0.893In	0.868In					

 \blacklozenge WLM7HU Derating factor table for circuit breakers altitude

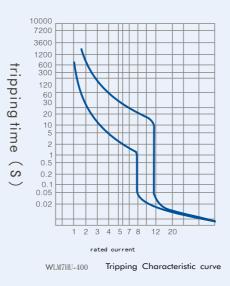
Altitude (m)	2000	2500	3000	3500	4000	4500	5000
Working current(A)	1	1	0.98	0.97	0.95	0.94	0.93
	1140	1140	1060	1000	980	940	900
Working Voltage(V)	1000	1000	900	850	810	770	730
	800	800	720	670	630	600	560
Power-frequency withstand voltage (V)	300	300	2650	2500	2300	2150	2000
Uimp (V)	1150	1150	1040	980	935	890	845
Cimp (V)	1250	1250	1140	1080	1035	990	945

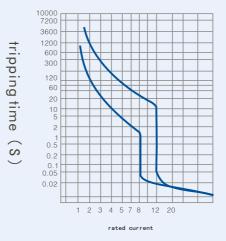
■ **T**ripping curve

The characteristic curve is truly cold, measured under three-phase load

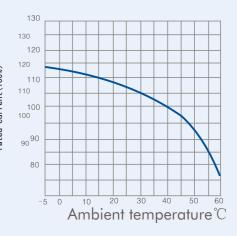


 ${\tt WLM7HU-250/315} \ {\rm Tripping} \ {\rm Characteristic} \ {\rm curve}$

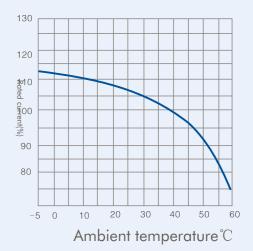




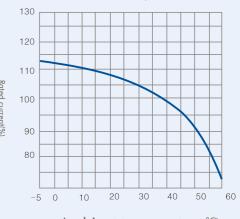
WLM7HU-630/800 Tripping Characteristic curve



WLM7HU-250/315current-temperature characteristic



WLM7HU-400 current-temperature characteristic



Ambient temperature[°]C

WLM7HU-630/800 current-temperature characteristic

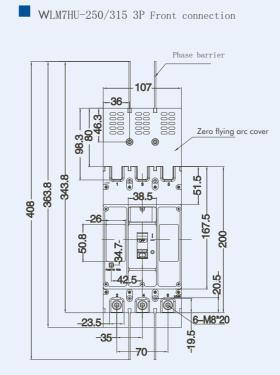


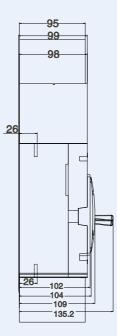
O Undervoltage release

Auxiliary contact(1NO1NC)

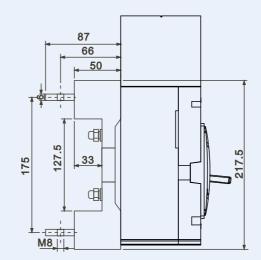
Auxiliary contact(2NO2NC)

Shunt release



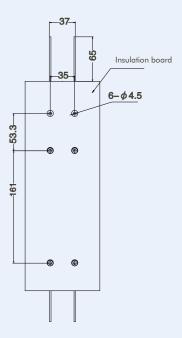


WLM7HU-250/315 3P plug in rear connection

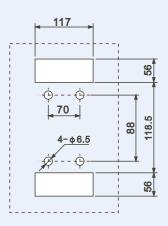


250 need left undervoltage release customized, 250 need left shunt release customized
shunt release /UV choosing rage:DC24V、DC110V、DC220V、AC230V、AC400V;default:AC230V

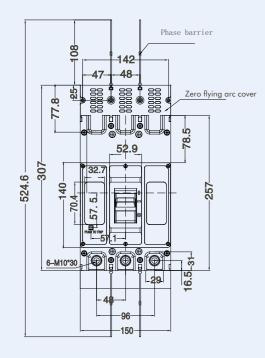
releaes mode internal	Model	WLM7HU	-250/315	WL7HU	-400	WL7HU-6	30/800
accessory code	Number of poles Accessory name	3P	4P	3P	4P	3P	4P
00	No						
08	Alarm contact						
10	Shunt release						
18	Shunt release+ Alarm contact						
20	Auxiliary contac (1NO1NC)						
27	Auxiliary contac (2NO2NC)		0	0			0
28	Auxiliary contac (1NO1NC)+ Alarm contact						
29	Auxiliary contac (2NO2NC)+ Alarm contact						
30	Under voltage release	0	0	0	0	0	0
38	Under voltage release+ Alarm contact		0	0	0	0	0
40	Shunt release+ Auxiliary contac (1NO1NC)	•	•	•	•	•	•
41	Shunt release+ Auxiliary contac (2NO2NC)		•				
48	Shunt release+ Auxiliary contac (1NO1NC) Alarm contact						
50	Shunt release+ Under voltage release	• •	• 0	• •	• •	• •	• •
60	2 sets of Auxiliary contac (1NO1NC)						
61	Auxiliary contac (2NO2NC)+ Auxiliary contac (1NO1NC)						0 0
62	2 sets of Auxiliary contac (2NO2NC)	0 0	0 0	0 0	0 0	0 0	0 0
68	Auxiliary contac (1NO1NC)+ Auxiliary contac (1NO1NC) Alarm contact						
69	Auxiliary contac (2NO2NC)+ Auxiliary contac (1NO1NC) Alarm contact						
70	Under voltage release+ Auxiliary contac (1NO1NC)						
71	Under voltage release+ Auxiliary contac (2NO2NC)	0 0	0 0	0 0	0 0	0 0	
78	Under voltage release+ Auxiliary contac (1NO1NC) Alarm contact						

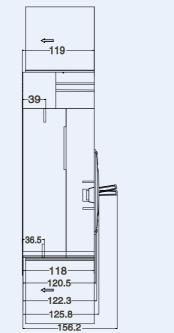


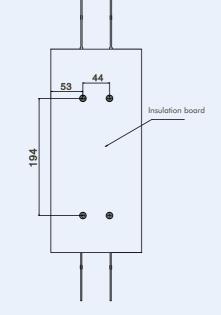
Installation plate hole size



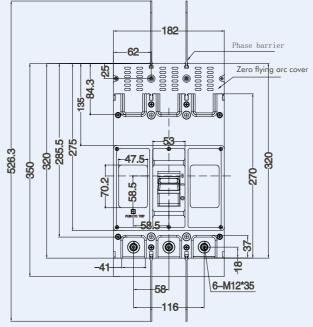
WLM7HU-400 3P Front connection







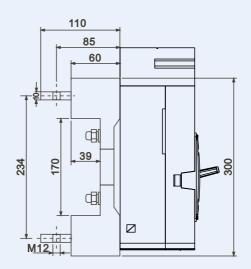
WLM7HU-630/800 3P Front connection



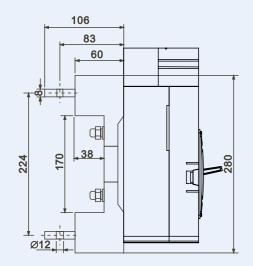
-36 -120.5-122.3

29

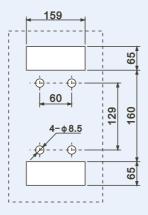
WLM7HU-630/800 3P plug in rear connection

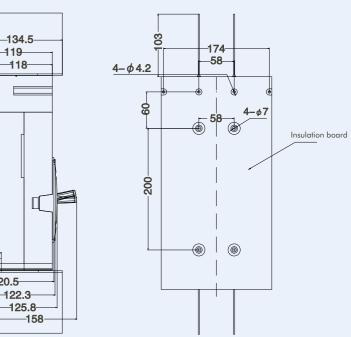


WLM7HU-400 3P plug in rear connection

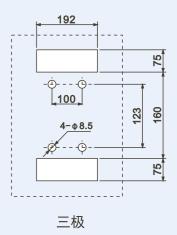


Installation plate hole size

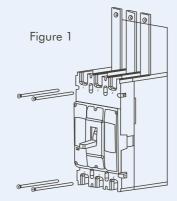




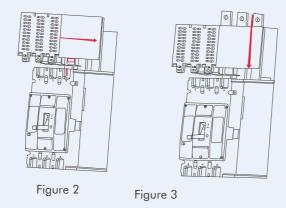
Installation plate hole size



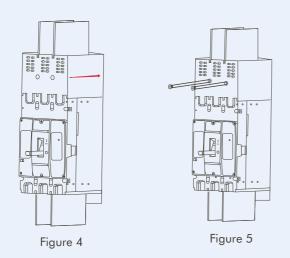
■ Installation instructions for flying arc cover



1. Fix the product onto the cabinet using installation screws

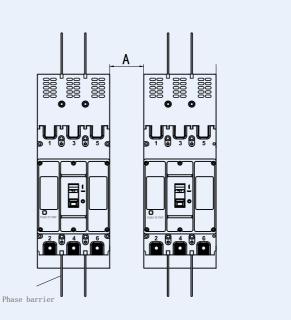


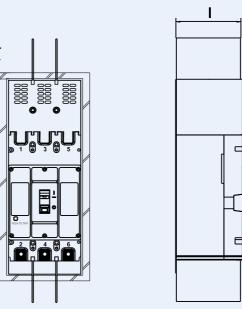
2. After aligning the assembled arc shield with the red marked surface on the middle cover, slide it towards the product side according to Figure 3 to ensure that the arc shield is securely attached to the base



3. After the arc cover is clamped with the base and middle cover according to Figure 3, apply force according to Figure 4 to move the arc cover in the direction marked in red. After installation, as shown in Figure 4, fix and install the arc isolation plate on the arc cover with screws, as shown in Figure 5

Installation Size





		距离 (mm)										
Model	A	В	С	D	E	F	G	Н	I	J	n−Φd	
WLM7HU-250	30	30	30	30	188	13	80	280	94	53	2-Φ4.5	
WLM7HU-315	30	30	30	30	188	13	80	280	94	53	2-Φ4.5	
WLM7HU-400	30	30	30	30	153.5	13	50	307	118	53	2-Φ4.5	
WLM7HU-630	30	30	30	30	185	13	50	320	118	60	2-Φ4.5	
WLM7HU-800	30	30	30	30	185	13	50	320	118	60	2−Φ4.5	

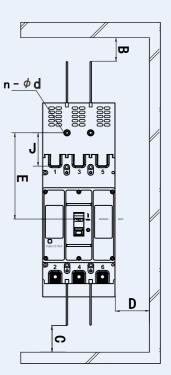
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Note: When users use 1000V and 1140V, terminal covers should be installed on the terminal side of circuit breaker

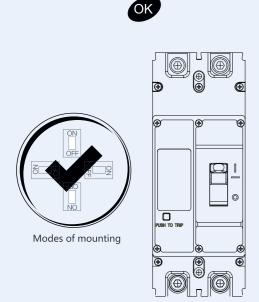
1.3.5 as shown in the diagram, and phase separators should be installed on the terminal side of circuit breaker

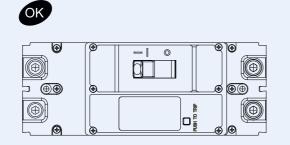
 $2.4.6. \ \text{Insulation boards should be padded between the circuit breaker and the metal mounting plate}$



Mounting of DC circuit breaker

Modes of mounting





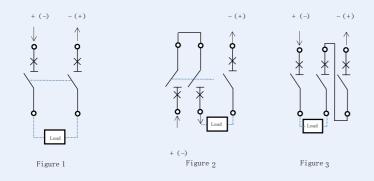
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The cross-sectional area and corresponding rated current of the connecting wires

Rated current (A)	63	80	100	125	160	180,225 200	250	280 🔪 300	315 🔪 350	400
Wire cross-sectional area (mm2)	16	25	35	50	70	95	120	185	185	240

Rated current (A)		busbar	busbar		
Raleu current (A)	Pieces	Wire cross-sectional area (mm2)	Wires	Wire cross-sectional area (mm2)	
500	2	150	2	30×5	
630	2	185	2	30×5	
700	2	240	2	50×5	
800	2	240	2	50×5	

connecting way



Note:

Figure1 :250/2P 400V/2P, 630V/2P, 400/2P, 630/2P, 800/2P); Figure2 :400/3P 630/3P, 800/3P Figure3 :250/3P

DC Type Technical data

WLM7DC Moulded Case	Circuit Breaker	250		315		
Rated operating current	In (A),40℃	63-80-100-125-140-	160-180-200-225-250	280-300-315		
characteristics						
Rated insulation voltag	ge Ui (V)	1500		1500		
Rated impulse withstan	nd voltage Uimp (kV)	12		12		
Rated operational voltage	ge Ue (V),DC	250,500,750,100	0,1250,1500	250,500,750,100	00,1250,1500	
Breaking capacity code		М	Н	M	н	I
	2P					
Number of poles	3P					
	DC250V		50		50	
	DC500C		50		50	
Rated ultimate short-circuit breaking	DC750V		25		25	
capacity Icu(kA)	DC1000V	15	25	15	25	
	DC1250V					
	DC1250V		7.5(2025)	5(3P20)	 7.5(3P25)	
	DC250V	5(3P20)	7.5(3P25) 50	5(3F20)	50	
	DC500C		50		50	
Rated service breaking			25		25	
capacity Ics(kA)	DC750V DC1000V	-	25	-	25	
		15		15		
	DC1250V		7.5(3P25)		 7.5(3P25)	
	DC1500V	5(3P20)	7.3(3F23)	5(3P20)	7.3(3723)	
Standard		IEC/EN 60947-2				
Utilization category		A		А		
Ambient temperature		-40 °C ~+70 °C				
Safety of insulation		•		•		
Arcing distance		0		0		
Mechanical life (C0 recycle)	Maintenance free	20000		20000		
Electrical life	DC1000V,In					
(C0 recycle)	2010001/11	1500		1500		
Release units						-
Distribution protection		-				
Mounting and connecti	1			1_		
Fixed	Front connection	•		•		
	Rear connection	•		•		
Plug-in ¹⁾	Front connection	•				
	Rear connection	•		•		
Draw-out ¹⁾	Front connection	-		-		
	Rear connection	-		-		
DIN rail	Front connection	-		-		
Dimension						
	Width(2P/3P/4P)	78/107		78/107		
Dimension(mm) W×H×D	Height	200		200		
	Depth	109		109		
Weight						
	2P	2.35		2.35		
Weight Weight(kg)/Fixed	3P	3		3		

WLM7DC Moulded Case	Circuit Breaker	400		400Q (customized)		
Rated operating current							
		250-315-350-400		250-280-315-320-350-400			
Electric characteristics		1500		1500			
Rated insulation voltag		1500		1500			1
Rated impulse withstan		12		12			1
Rated operational voltag		110,250,500,750,		110, 250 , 500 , 75			
Breaking capacity code		M	Н	M	Н		
Number of poles	2P	•			•		
	3P				_		1
Rated ultimate short-circuit breaking	DC250V	25	50		70		_
capacity Icu(kA)	DC500C	25	50		70		
	DC750V	15	25	_	50		
	DC1000V	15(3P30)	25(3P40)	_	50		
	DC1250V	—	—	-	20		
	DC1500V	10(3P25)	10(3P30)	—	20		1
	DC250V	25	50		70		
	DC500C	25	50	_	70		
Rated service breaking	DC750V	15	25	-	50		
capacity Ics(kA)	DC1000V	15(3P30)	25(3P40)		50		
	DC1250V	_	_		20		1
	DC1500V	10(3P25)	10(3P30)		20		
Standard		IEC/EN 60947-2					+
Utilization category		A		A			
Ambient temperature		-40 °C ~+70 °C					
Safety of insulation		•		•			
Arcing distance		0		0			
Mechanical life (C0 recycle)	Maintenance free	20000		15000			1
Electrical life	DC1000V,In	2000(DC1500V is :100	Otimes)	2000(DC1500V is :10		1	
(C0 recycle)				2000(DC1300713.10)			1
Release units							1
Distribution protection	n TM						
A.A		1		-			
		\ _		1			
	Front connection						1
Fixed	Front connection Rear connection	•					
Fixed	Front connection Rear connection Front connection	•		•			
Fixed	Front connection Rear connection	•					
Fixed Plug-in ⁰	Front connection Rear connection Front connection	•		•			
Fixed Plug-in ⁰	Front connection Rear connection Front connection Rear connection	•		•			
Fixed Plug-in ¹⁾ Draw-out ¹⁾	Front connection Rear connection Front connection Rear connection Front connection	•		•			
Fixed Plug-in ^D Draw-out ^D DIN rail	Front connection Rear connection Front connection Rear connection Front connection Rear connection	• • • 					
Fixed Plug-in ^D Draw-out ^D DIN rail Dimension	Front connection Rear connection Front connection Rear connection Front connection Rear connection	• • • 					
Fixed Plug-in ¹⁾ Draw-out ¹⁾ DIN rail Dimension Dimension(mm) W = U = D	Front connection Rear connection Front connection Rear connection Rear connection Front connection Front connection						
Fixed Plug-in ¹⁾ Draw-out ¹⁾ DIN rail Dimension	Front connection Rear connection Rear connection Front connection Front connection Rear connection Front connection Width(2P/3P)	 		• •			
Fixed Plug-in ¹⁾ Draw-out ¹⁾ DIN rail Dimension Dimension(mm) W×H×D	Front connection Rear connection Front connection Front connection Rear connection Front connection Front connection Width(2P/3P) Height	■ ■ 		• • <td< td=""><td></td><td></td><td></td></td<>			
	Front connection Rear connection Front connection Rear connection Front connection Rear connection Front connection Width(2P/3P) Height Depth	 		• • <td< td=""><td></td><td></td><td></td></td<>			
Fixed Plug-in ¹⁾ Draw-out ¹⁾ DIN rail Dimension Dimension(mm) W×H×D	Front connection Rear connection Front connection Front connection Rear connection Front connection Front connection Width(2P/3P) Height	■ ■ 		• • <td< td=""><td></td><td></td><td></td></td<>			

WLM7DC Moulded Case	Circuit Breaker	630		630Q (customized)	800	
Rated operating current ln $$ (A) ,40 $^{\circ}\!\mathrm{C}$		400-500-630		450-500-630		630-700-800	
Electric characteristics						1	
Rated insulation voltag	e Ui (V)	1500		1500		1500	
Rated impulse withstan	d voltage Uimp (kV)	12		12		12	
Rated operational voltag	ge Ue (V),DC	110,250,500,750,	1000,1200,1500	110,250,500,75	0, 1000,1200,1500	750,1000,1200,1	500
Breaking capacity code	;	М	Н	М	Н	М	Н
Number of poles	2P				•	•	•
Number of poles	3P	•			_		
Rated ultimate short-circuit breaking	DC250V	25	50	-	70	25	50
capacity Icu(kA)	DC500C	25	50	_	70	25	50
	DC750V	15	35	-	50	15	25
	DC1000V	15(3P30)	35 (3P30)	_	50	15 (3P30)	25 (3)
	DC1250V	_	_	-	20	_	_
	DC1500V	10(3P25)	25	_	20	10 (3P25)	20 (3
	DC250V	25	50	_	70	25	50
	DC500C	25	50	_	70	25	50
Rated service breaking	DC750V	15	35	-	50	15	25
capacity Ics(kA)	DC1000V	15(3P30)	35		50	15	25 (34
	DC1250V		_	-	20		—
	DC1500V	10(3P25)	25		20	10	20 (3)
Standard		IEC/EN 60947-2					
Utilization category		А		А		А	
Ambient temperature		-40 °C ~+70 °C					
Safety of insulation		•				-	
Arcing distance		0		0		0	
Mechanical life (C0 recycle)	Maintenance free	20000		15000		15000	
Electrical life (C0 recycle)	DC1000V,In	2000(DC1500V is :100	Otimes)	2000(DC1500V is :10	00times)	2000(DC1500V is	:1000tim
Release units	I			1			
Distribution protection	n TM						
Mounting and connect							
Fixed	Front connection			-		-	
	Rear connection			•		•	
Plug-in ¹⁾	Front connection			-		-	
	Rear connection					•	
Draw-out ¹⁾	Front connection	-		-		-	
	Rear connection	-		-		_	
DIN rail	Front connection			-		-	
Dimension	I	1				1	
	Width(2P/3P)	130/182		106		130/182	
	Height	270		275		270	
W×H×D	Depth	154.5		154.5		154.5	
Weight							
		2		5.85		6.2	
	1 2P			1.0.00			
Weight	2P 3P	8.3		5.65		8.5	

The application type: Power distribution type

rated current(A)	Thermal release (ambi	ient temperature+40 °C)	Electromagnetic release
	1.05In non tripping time(cold state)	1.30 In trip time (hot state)	action current (A)
63	≥1	≤1	10In±20%
63 < In ≤ 800	≥2	≤2	10111122070

◆ WLM7DC compensation coefficient table

Model	Current(A)	Total power loss of 2Poles/3Poles (W)
WLM7DC-250	250A	40
WLM7DC-315	315A	43
WLM7DC-400	400A	115
WLM7DC-400Q	630A	105
WLM7DC-630	800A	187
WLM7DC-630Q	630A	127
WLM7DC-800	800A	252

◆ WLM7DC Electronic circuit breaker rated operational current and temperature compensation coefficient table |

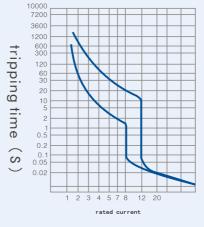
		Ambient temperature℃							
Model	+40°C	+45°C	+50°C	+55°C	+60°C	+65 °C	+70°C		
CSDM5DC-250	1.0In	1.0In	1.0In	0.95ln	0.93ln	0.91ln	0.88In		
CSDM5DC-315	1.0In	1.0In	1.0In	0.95In	0.93In	0.91ln	0.88In		
CSDM5DC-400	1.0In	1.0In	1.0In	0.93In	0.91ln	0.89In	0.85In		
CSDM5DC-630	1.0In	1.0In	1.0In	0.92ln	0.90ln	0.89In	0.83ln		
CSDM5DC-800	1.0In	1.0In	1.0In	0.92ln	0.89In	0.85In	0.80ln		

◆ WLM7DC Derating factor table for circuit breakers altitude

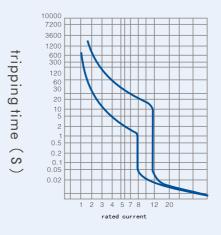
Altitude (m)	2000	2500	3000	3500	4000	4500	5000
Working current	1	1	0.98	0.95	0.93	0.91	0.89
correction factor Working Voltage(V)	1	1	1	1	1	1	1
Power-frequency withstand voltage (V)	1	1	1	1	1	1	1
Uimp (V)	1	1	1	1	1	1	1

Tripping curve

The characteristic curve is truly cold, measured under three-phase load

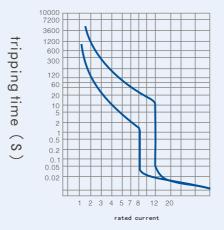




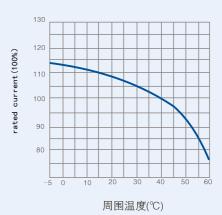


Tripping Characteristic curve

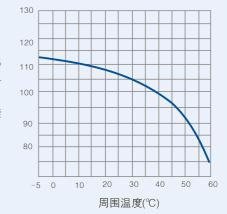
WLM7DC-400



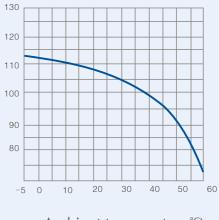
WLM7DC-630/800 Tripping Characteristic curve



WLM7DC-250/315current-temperature characteristic



WLM7DC-400current-temperature characteristic



Ambient temperature[°]C

WLM7DC-630/800current-temperature characteristic



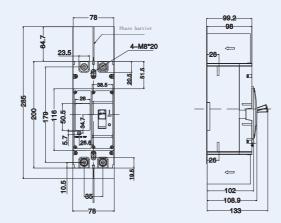
Note: 250 need left undervoltage release customized, 250 need left shunt release customized shunt release /UV choosing rage:DC24V, DC110V, DC220V, AC230V, AC400V;default:AC230V

releaes mode internal	Model	WLM7DC	-250/315	WL7DC-400/630QH	WL7DC-40	0/630/800
accessory code	Number of poles Accessory name	2P	3P	2P	2P	3P
00	No					
08	Alarm contact					
10	Shunt release	•	•	•	•	•
18	Shunt release+ Alarm contact					
20	Auxiliary contac (1NO1NC)					
27	Auxiliary contac (2NO2NC)	0	0			0
28	Auxiliary contac (1NO1NC)+ Alarm contact					
29	Auxiliary contac (2NO2NC)+ Alarm contact					
30	Under voltage release	0	0	0	0	0
38	Under voltage release+ Alarm contact		0			
40	Shunt release+ Auxiliary contac (1NO1NC)		•			• E
41	Shunt release+ Auxiliary contac (2NO2NC)		• •	•	•	•
48	Shunt release+ Auxiliary contac (1NO1NC) Alarm contact					
50	Shunt release+ Under voltage release					• 0
60	2 sets of Auxiliary contac (1NO1NC)					
61	Auxiliary contac (2NO2NC)+ Auxiliary contac (1NO1NC)		0			0 0
62	2 sets of Auxiliary contac (2NO2NC)		0 0			0 0
68	Auxiliary contac (1N01NC)+ Auxiliary contac (1N01NC) Alarm contact					
69	Auxiliary contac (2NO2NC)+ Auxiliary contac (1NO1NC) Alarm contact					
70	Under voltage release+ Auxiliary contac (1NO1NC)		0			
71	Under voltage release+ Auxiliary contac (2NO2NC)		0			
78	Under voltage release+ Auxiliary contac (1NO1NC) Alarm contact					

Undervoltage release

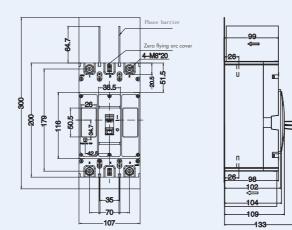
Shunt release

WLM7DC-250/315 2P Front connection



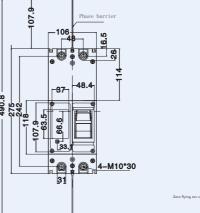
-39.5-

WLM7DC-250/315 3P Front connection





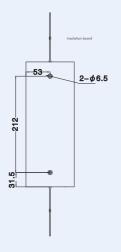
WLM7DC-400/630QH 2P Front connection











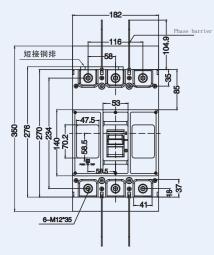
Unit (mm)

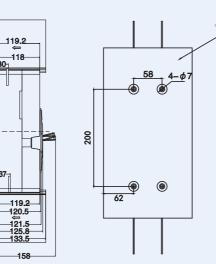
WLM7DC-400/630/800 2P Front connection

119.2 -118-M12*3 2-¢7 Ð 6 (B ______ 119.2

121.

WLM7DC-400/630/800 3P Front connection





Unit (mm)

Unit (mm)

Accessories characteristics and installation



AX-125 single auxiliary contact

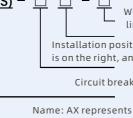


AXS-125 Double auxiliary contact



AX-400 single auxiliary contact

WLM6 moulded case circuit breaker has various accessory modules, which can be found in $\ensuremath{\mathsf{P84}}$ for more details 12.1 AX Auxiliary contact 9.1.1 Function Remotely indicate the circuit breaker's making (on) or breaking / tripping (OFF) status, connected to the auxiliary circuit of the circuit breaker. 12.1.2 Model description Wiring method: SX is a long line type, JXH is a terminal type Installation position: Z is on the left, Y is on the right, and can be omitted for both sides Circuit breaker frame current level current Name: AX represents auxiliary, (S) represents double 12.1.2 Code for mccb Frame



125/160 250 Frame

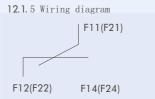
code AX-125 AX-250 AX-400 12.1.3 Indication of circuit breaker status

The circuit breaker is in the "off" or	double AX	F11 (F21) F12 (F22) F12 (F22) F12 (F22) F12 (F22) F12 (F22)				
"free trip"position	single AX	F14 F11 F12				
"Normally closed" contacts status	change from"closed"to "open",change from "open"to "closed"					

12.1.4 Electrical characteristics

	(\mathbf{V})	A	I C		D C	
Ue	(v)	230V	400V	110	220	24
lnm250 [,]	~800(A)	0.3	0.3	0.15	0.15	0.15

Note:1NO1NC lnm 125\250,2NO2NC lnm 400/630/800



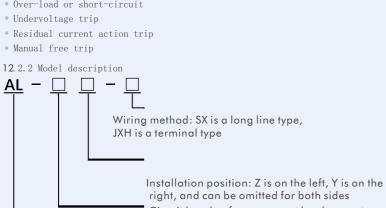
400

12.2 AL Alarm contact

12.2.1 Function It is mainly used to provide a signal when the load of the circuit breaker is overloaded, short-circuited or undervoltage, or tripped. The reasons for the failure of the alarm signal are: • Over-load or short-circuit • Undervoltage trip • Residual current action trip



AL-400 alarm contact



Circuit breaker frame current level current Name:Alarm contact

12.2.3Code for mccb Frame

Frame	125/160	250	400
code	AL-125	AL-250	AL-400

12.2.4 Indication of circuit breaker status

Circuit breaker is at breaking	B14 B11
or making status	B12 B11
Circuit breaker is at free tripping status	B14B11

12.2.5 Electrical characteristics

		P	I C		D C	
Ue	(\mathbf{v})	230V	400V	110	220	24
In			0.3			
		0.0	0.0	0.10	0.10	0.10

12.2.6 Wiring diagram





SHT-250shunt release



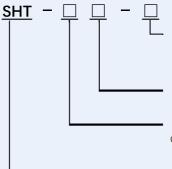
SHT-400shunt release

12.3 SHT Shunt release

12.3.1 Function

bresker to operate relisbly.

12.3.2 Model description

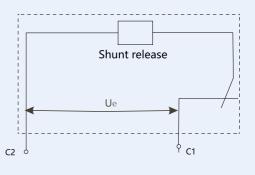


12.3.2 Code for mccb Frame

Frame	125/160	250
code	SHT-125	SHT-250
12.3.3 Elec	trical chara	acteristics
Ue	(V)	A
Ue		230V

(A)

12.3.4 Action characteristics Can be powered for a long time. Response time: pulse type \geqslant 220ms, \leqslant 60ms 12.3.5 Wiring diagram



0.3

Note:

ln

When the rated control power supply voltage DC24V shunt release is used, the maximum length of the copper wire (each of the two wires) must meet the following table:

Conductor cross-sectional area Rated control supply voltageUs (DC24V)	1. 5mm ²	2. 5mm ²
10 0%U _s	15 0 m	25 0 m
85%U _s	10 0 m	16 0 m

Shunt releases operate according to electrical signals, enabling remote control and automatic control of circuit breakers. When the supply voltage When the voltageis equal to any voltage between 70% and 110% of the rated control power supply voltage, the shunt release should enable the circulit

- Wiring method: SX is a long line type, JXH is a terminal type
- Installation position: Z is on the left, Y is on the right, and can be omitted for both sides

Circuit breaker frame current level current

Name:shunt release

400

SHT-400

С		D C	
400V	110	220	24
0.3	0.15	0.15	0.15

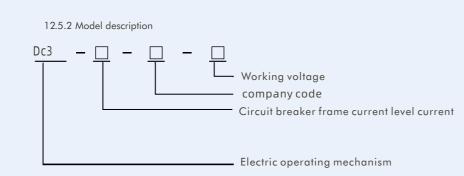


12.5CD Motor-driven mechanism

automation applications.

Rated Voltage(Us)	AC230V 50Hz	AC400V 50Hz		
	DC24V、110V、220V			
Frame Rated current lnm	250-315	400-800		
Operating power(w	14	35		
Life(times)	20000	10000		
Reliable action range:85%-110% Us				

DC2-250/315 Motor operating mechanism



Note: The 1600 frame motor-driven mechanism is assembled in the factory and is suitable for electronic circuit breakers and disconnectors according to the inside of the circuit breaker.

DC3-400

136

6

DC3-630/800

138

12.5.3 Electrical characteristics

Motor Driv

Product Model DC3-250/315

Motor Driver assembling sizse(mm)

т

Size H

мссв



12.5. 4Installation dimension diagram of motor operating mechanism Α

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98





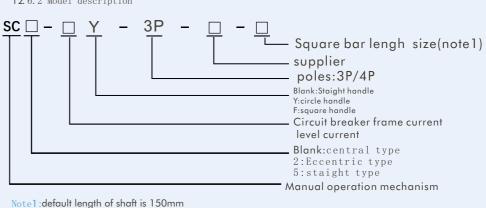
CD2电机式接线原理图

The dashed box represents the wiring diagram of the internal accessories of the circuit breaker of the internal accessories of the circuit breaker

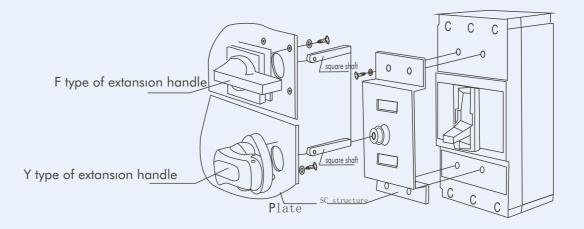


SC-160Manual operation mechanism





150mm/200mm/300mm/350mm/500mm





12.5.1 Function

It is suitable for closing, opening and re-opening of circuit breakers at long distances as well as

12.6.1 Function

opening;

. When the switch is in the ON position, the cabinet door cannot be opened under the action of the rotary handle (if the cabinet door is opened urgently, the cabinet door can be opened by the emergency unlocking device on the handle).

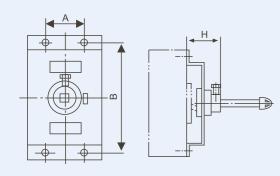
12.6.2 Model description

12.6 SC Economic extended rotary handle

The unique design and transmission structure are adopted to realize the closing, opening and reclosing operation of the circuit breaker by rotating the handle.

• O (open), I (closed) and free trip 3 position indications; • The circuit breaker can be locked in the OFF position with 1~3 padlocks with a diameter of 5° 8mm. At this time, it can prevent the circuit breaker from closing and the swith cabinet from

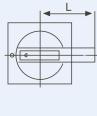
SC Overall and mounting dimension



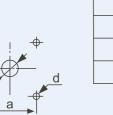
	Dimensions of Operating Mechanism Handle (mm)			
Model	А	В	Н	
WLM7HU-250/315	35	161	70	
WLM7HU-400	137	200	76	
WLM7HU-600/800	167	214	76.3	

Model	Dimensions of Operating Mechanism Handle (mm)			
Model	A	В	Н	
WLM7DC-250/315-2300	_	161	62	
WLM7DC-250/315-3300	35	161	70	
WLM7HU-400/630-2300	116	200	76.3	
WLM7HU-400Q/630Q-2300	89	217	48	
WLM7HU-800/2300	116	200	76.3	
WLM7HU-400/630/800-3300	167	214	76.3	

SC Overall and mounting dimension



F type of extansion handle



A1 A2 250-315 400-800 Model D ф35 φ35 d φ4.5 φ4.5 65 65 а b 65 65 95 125 L

B1 B2 250-315 400-800 手柄规格 φ35 φ35 D φ4.5 φ4.5 d 65 65 а 45° 53 53 b 95 125 L

Y type of extansion handle

	Company			
Model List		□ WLM6 □ one knob □ two knob □ WLM6E □ three knob □ six knob □ WLM6LY □ WLM6 □ DC □ HU □ LCD		
		Table		
	wiring way	∎ up in down out		
	Plug in way			
	Knob	□six knob □three knob Current range:]		
	Testing	Temperature : □ - 30°C ■ 40°C □ 50°C □ 55°C		
-	Temperature rising	Normal		
	Conmunication	DL645		
Function	Breaking capacity	□ Normal		
	Electronic life	Normal		
	Mechanical life	Normal		
	Ig protection	Have		
	loading pre-alarm	Have		
	communication	■ Have Voltage: □ AC230V □ AC400V □ DC24V other		
	ROHS	Have		
	Salt spray test	■ Have □48h □ 72h		
	Base cover colour	■blanck 3C □ COOL GRAY 1C		
	Handle colour	■blanck3C □ Red186C □gray11C □ dark gray 75		
Apperance-	Middle cover colour	material:■DMC □PA6 ■ blanck3C □ COOL GRAY 1C □ dark gray 7547U		
	Top cover colour	■ blanck3C □ COOL GRAY 1C □ dark gray 7547U		
	Tripping Knob	□ RED 186C □ dark blue 661U-1 □Orangel		
	adjustable Knob	□ RED 186C □ dark blue 661U-1 □light b		
	top cover screw	□Blue white zinc □Black zinc others:		
	Nameplate	□Blank □Laser □Print □na		
	Nameplate	Customer provide W9 provide others:		
	Current plate	■Blanck □ White		
Stickers	Side information plate	Customer provide W9 provide others:		
	Series No.	■ Have		
	box plate	□ Customer provide □ W9 provide □ others:		
	outside box plate	Customer provide W9 provide others:		
	Shunt release	AC230V []; AC380V/400V []; D		
es	Undervoltage release	e AC230V □; AC380V/400V □; D0		
Accessories	Auxiliary switch			
Acce	Wiring method of	1 set \Box ; 2 sets \Box		
	internal accessories	lead wire [default]; terminal block		

(bl	s□√	/ Т	ick	Or	Fill	in_
	P 1			i Cit	<u> </u>		

□S	□ 1P □ 2P	□Rated current A
□ C □ M □ H	□ 3P □ 4P	

	🗌 up out down in							
COA 4001 /								
160A-400A/	<u>320-800A</u> ; Frame size: <u>400A/800A</u>							
	Protection: Power distributor Noctor protection Nover temperature rising 55K							
	Customized: Modbus							
	Customized <u>50/50</u> KA							
	□ Customized							
	□ Customized							
	□ No							
	□ No							
's <u>:</u>	_ ■ No							
	No							
	No							
547U 🗆 blue3015C 🗆 gray430C								
	Prited: line、LOAD: ■有 🗆 No							
□gray43	00C □ Cool gray 431C							
□gray43	0C □ Cool gray 431C							
645C								
blue2128C □Orange1645C								
me plate								
	position: ■Base right side □ middle.cover							
	■ No							
	□ No							
	□ No							
	□ No							
	0V□ ; DC24V□ ; N□ ; DC24V□ ;							
:□;];							
□; □; customized length [chargeable] □;								
g □; customizea lengtn [chargeable] □;								

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T		1			
_					
Accessory	Motor Driver	P1: DC3 electric operation(General market ver	rsion)	□ DC24 □ DC110V □ DC220V □ AC400V	
	(DC3/DC6)	P2: DC6 series electric operation(self-manufa	cturing)	■ AC230V(defaulted)	
	Terminal Cover				
	Busbar				
	Operation Handle	Zyl: Rotating handle (manual center type - circular handle) - (defaulted)			
		Zfl: Rotating handle (manual center type - square handle)			
		Zy2: Rotating handle (hand operated eccentric - cirular handle)			
		Zf2: Rotating handle (manual eccentric square handle)			
		Z3: Rotating handle (hand operated integrated)			
instructions	Neutral	Have	□No]No	
	Customized	Customer provide B9 provide others.	□No		
Box	Neutral	■ Have	🗆 No	□ No	
	Customized	Customer provide W9 provide others:			
Packaging box	Neutral	Neutral Have		□No	
	Customized		🗆 No		
Sealing tape	Neutral	Have	No		
	Customized	Customer provide 199 provide others:		□No	
others			•		
Notes					

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