

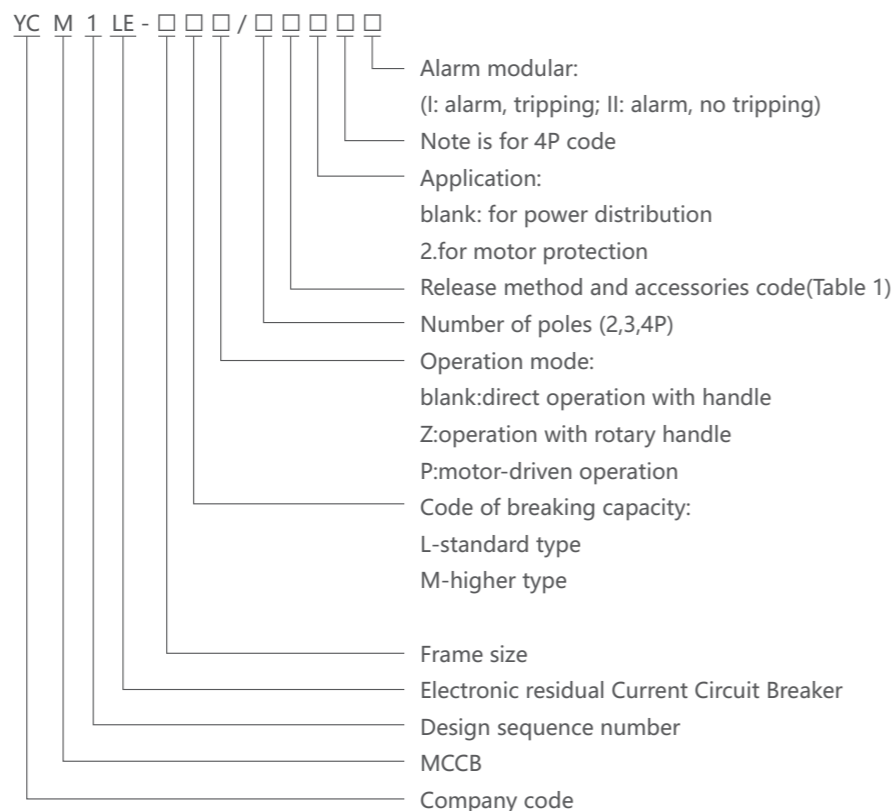
YCM1LE Earth Leakage MCCB

General

YCM1LE series earth leakage circuit breaker (herein after called circuit breaker) is applied for the power distribution network of AC 50Hz, rated current 630A. The circuit breaker can protect people against indirect contact with dangerous electric current and prevent fire disaster caused by insulation fault and single-phase ground fault. It can be used to distribute electric power and protect power equipment against overload and short circuit. The circuit breaker can change the circuit and start motor infrequently. The rated residual operating current and the maximum off-time can be adjusted on-site according to actual situation, the circuit breaker can be customized alarm function and no tripping function.

The YCM1LE complies with standard of IEC60947-2.

Type designation



Note:

- A: Without current release components, N-Pole is always at making status, not makes and breaks with other three poles;
- B: Without current release components, N-Pole makes with the other three poles (N-Pole first makes then breaks);



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Specifications

Type	YCM1LE-125	YCM1LE-250	YCM1LE-400	YCM1LE-630				
Frame current $I_{nm}(A)$	125	250	400	630				
Rated current $I_n(A)$	10, 16, 20, 25, 32, 40 50, 63, 80, 100, 125	100, 125, 140, 160 180, 200, 225, 250	225, 315, 350, 400	400, 500, 630				
Pole	2 3 4	2 3 4	3 4	3 4				
Rated insulation voltage $U_i(V)$	AC800							
Rated working voltage $U_e(V)$	AC400							
Rated impulse withstand voltage $U_{imp}(V)$	8000							
Arcing-over distance (mm)	50		100					
Breaking ability level	L M	L M	L M	L M				
Rated ultimate short-circuit breaking capacity $I_{cu}(kA)$	35	50	35	50	50	65	50	65
Rated working short-circuit breaking capacity $I_{cs}(kA)$	22	25	22	25	35	42	35	42
Rated residual short-circuit breaking capacity	7.5	12.5	7.5	12.5	12.5	13.5	12.5	13.5
Rated residual operating current $I_{\Delta n}(mA)$	No time-delay type	30/100/500 100/300/500	30/100/500 100/300/500	100/300/500	300/500/1000			
	Time-delay type	100/300/500	100/300/500	100/300/500	300/500/1000			
Rated residual unoperating current $I_{\Delta n}(mA)$	1/2 $I_{\Delta n}$		1/2 $I_{\Delta n}$		1/2 $I_{\Delta n}$	1/2 $I_{\Delta n}$		
Operating performance (times)	Power on	1500	1000	1000	1000			
	Power off	8500	7000	4000	4000			
	Total times	10000	8000	5000	5000			
Residual current protection operating time	$I_{\Delta n}$		$2I_{\Delta n}$		$5I_{\Delta n}$	$10I_{\Delta n}$		
Max. breaking time(s)	No time-delay type	0.2	0.1	0.04	0.04			
	Time-delay type	0.4/1	0.4/1	0.3/1	0.3/1			

Distribution Apparatus

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Release method and accessories code

Table 1

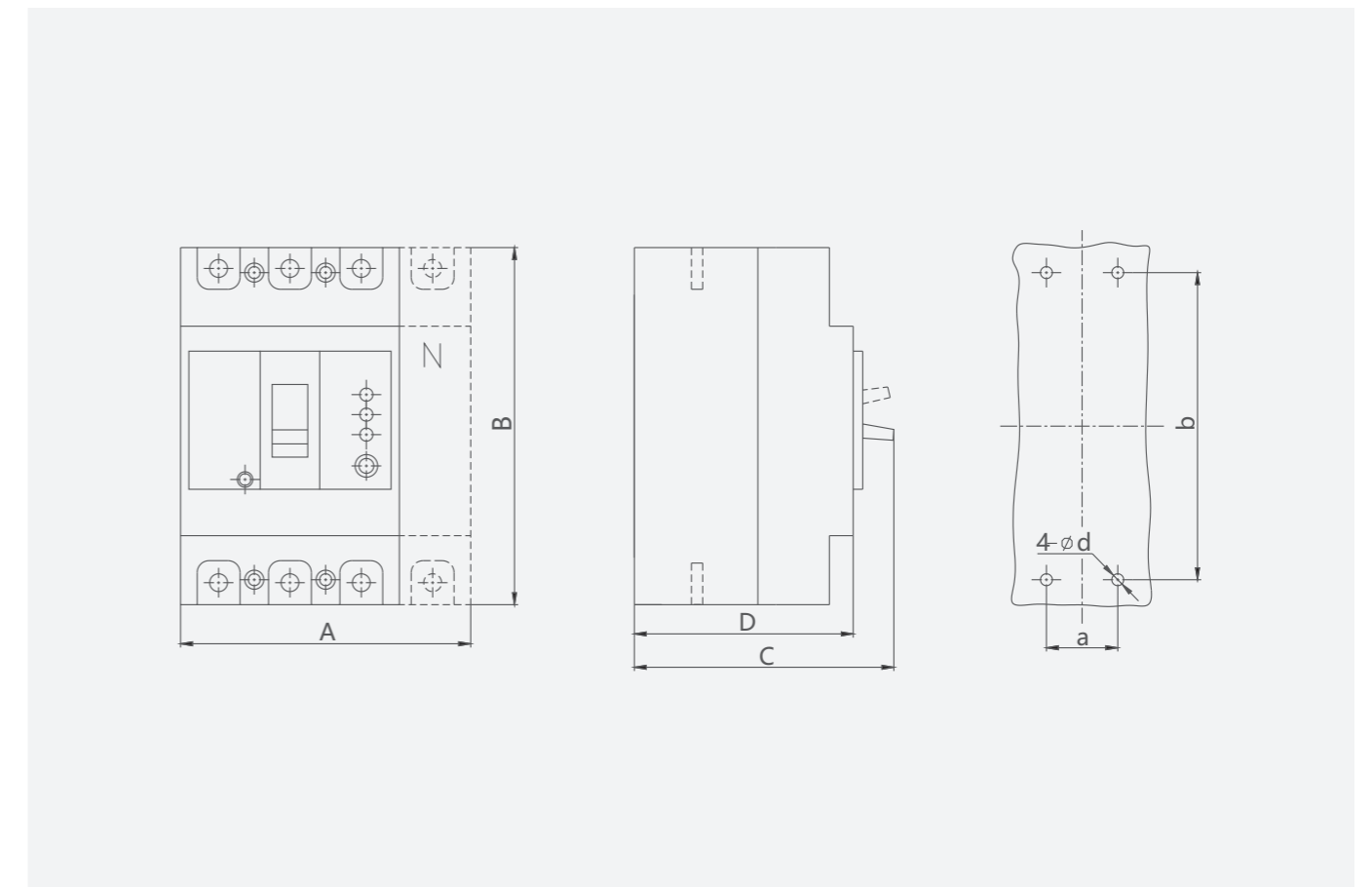
Accessories name	Release method and accessories code		Accessories installation and down-leads			
	Electromagnetic release	Complex release	YCM1LE-125/3 YCM1LE-250/3	YCM1LE-125/4 YCM1LE-250/4	YCM1LE-400/3 YCM1LE-630/3	YCM1LE-400/4 YCM1LE-630/4
Without parts	200	300				
Alarm contact	208	308				
Shunt release	210	310				
Auxiliary contact	220	320				
Undervoltage release	230	330				
Shunt release, Auxiliary contact	240	340	—		—	
Secondary auxiliary contact	260	360				
Auxiliary contact, Undervoltage release	270	370	—		—	
Shunt release, Alarm contact	218	318	—		—	
Auxiliary contact, Alarm contact	228	328				
Undervoltage release, Alarm contact	238	338	—		—	
Shunt release, Auxiliary contact, Alarm contact	248	348	—		—	
Secondary auxiliary contact, Alarm contact	268	368	—		—	
Auxiliary contact, Undervoltage release, Alarm contact	278	378	—		—	

Note: left right Alarm contact □ Shunt release ● Auxiliary contact ■ Undervoltage release ○

Distribution Apparatus

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Overall and mounting dimensions(mm)



Type	Pole	Overall size (mm)				Installation size (mm)		
		A	B	C	D	a	b	Φd
YCM1LE-125	3	92	150	110	92	30	129	4.5
	4	122				60		
YCM1LE-250	3	107	165	110	90	35	126	4.5
	4	142				70		
YCM1LE-400	3	150	257	146.5	106.5	44	194	7
	4	198				94		
YCM1LE-630	3	210	280	155	115.5	70	243	7
	4	280				140		