

LFM3 Moulded Case Circuit Breaker**1. General**

LFM3 series moulded case circuit breaker is one of the most advanced type breaker in the world, which adopts international advanced design and manufactural technology. They are suitable for short circuit and overload protection in circuit of AC 690V 50/60Hz, rated current from 12.5A to 630A. Its rated operating voltage is 690V. It can make and break the unfrequent circuit under normal conditions. It takes protective effect when squirell-cage motors unfrequently start, making& breaking and protecting against overload, short circuit and lacking voltage.

2. Specifications

Table 1

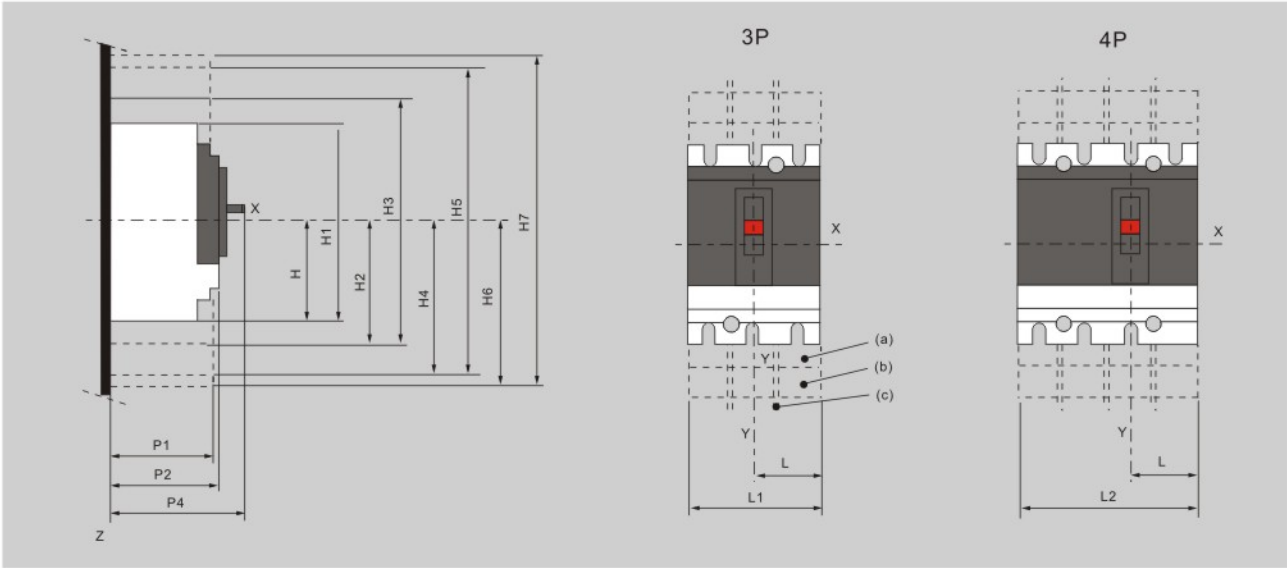
Rated current of release(A)	Thermo dynamic release (ambient temperature +40℃)		Operational current of magnetic release(A)
	1.05In(cold state) non-tripping time(h)	1.30In(heat state) non-tripping time(h)	
In≤63	≥1	<1	10In±20%
63<In≤100	≥2	<2	10In±20%
25<In≤630	≥2	<2	5-10In±20%

Table 2

Rated current of release(A)	Thermo dynamic release (ambient temperature +40℃)				Operational current of magnetic release (A)
	1.0In(cold state) non-tripping time(h)	1.20In(heat state) non-tripping time(h)	1.50In(heat state) non-tripping time(h)	1.01In(heat state) non-tripping time(h)	
12.5<In≤630	≥2	<2	<4min	2S<Tp≤10S	12In±20%

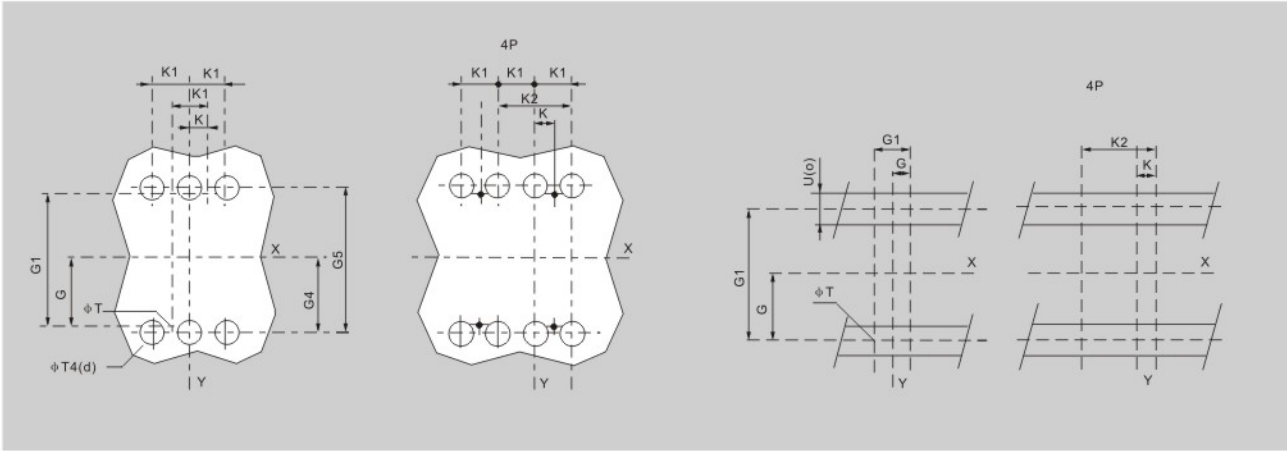
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Type	Rated current (A)	poles	Rated insulating voltage(V)	Rated operating voltage(V)	Arcing over distance (mm)	Ultimate short circuit breaking capacity (kA)	Services short circuit breaking capacity (kA)	Operation life (times)	
								Electrical	Mechanical
LFM3-100D	12.5,16,20, 25,32,40, 50,63,80, 100	3,4	950	690	0	18	18	1500	8500
LFM3-100N						25	25		
LFM3-100H						70	70		
LFM3-100L						150	150		
LFM3-160D	16,20,25, 32,40,50, 63,80,100, 125,160					25	25	1000	7000
LFM3-160N						36	36		
LFM3-160H						70	70		
LFM3-160L						150	150		
LFM3-250D	160,180, 200,225, 250					25	25	1000	7000
LFM3-250N						36	36		
LFM3-250H						70	70		
LFM3-250L						150	150		
LFM3-400D	200,225, 250,300, 315,400					35	35	1000	4000
LFM3-400N						45	45		
LFM3-400H						70	70		
LFM3-400L						150	150		
LFM3-630D	315,350, 400,500, 600,630					35	35	1000	4000
LFM3-630N						45	45		
LFM3-630H						70	70		
LFM3-630L						150	150		

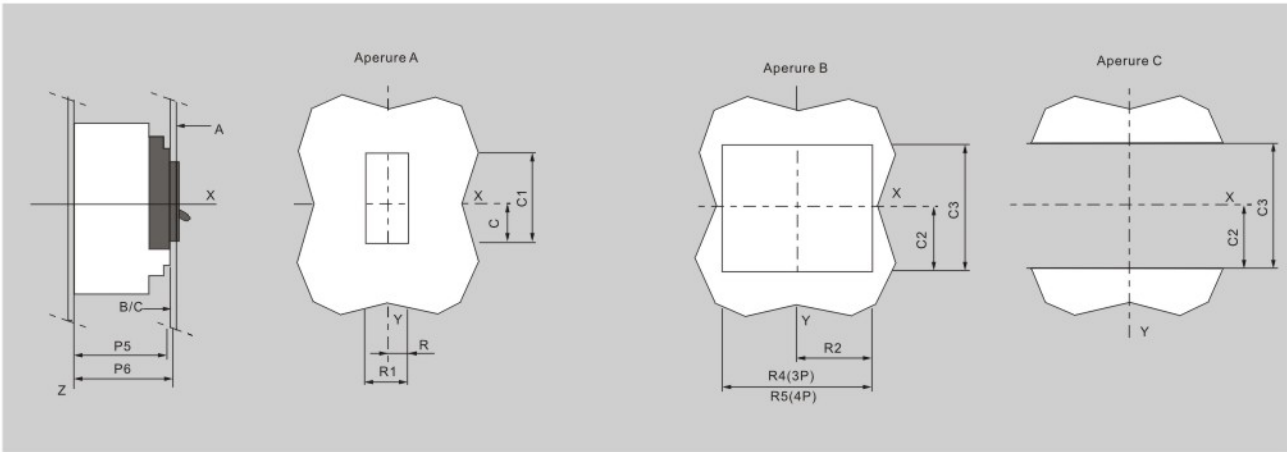
3. Overall and mounting dimensions(mm)

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Mounting on backplate
3P



Aperture on a front panel
Fitting to fixed and plug-in circuit breaker



mm	C	C1	C2	C3	G	G1	G4	G5	H	H1	H2
LFM3 100/160/250N/H/L	29	76	54	108	62.5	125	70	140	80.5	161	94
LFM3 400/630N/H/L	41.5	116	92.5	184	100	200	113.5	227	127.5	255	142.5

mm	H3	H4	H5	H6	H7	K	K1	K2	L	L1	L2	P1	P2	P4	P5
LFM3 100/160/250N/H/L	188	160.5	321	178.5	357	17.5	35	70	52.5	105	140	81	86	111*	83
LFM3 400/630N/H/L	285	240	480	237	474	22.5	45	90	70	140	185	95.5	110	168	107

mm	P6	R	R1	R2	R4	R5	φ T	φ T4	(Ue)
LFM3 100/160/250N/H/L	88	14.5	29	54	108	143	6	22	≤32
LFM3 400/630N/H/L	112	31.5	63	71.5	143	188	6	32	≤32