

# MOULDED CASE CIRCUIT BREAKER

## RDM5

### Moulded Case Circuit Breaker



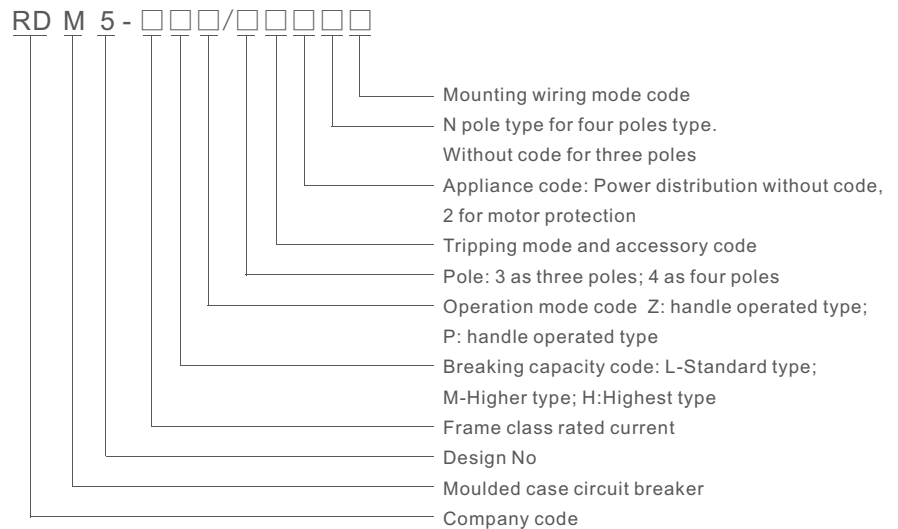
#### Application

RDM5 series moulded case circuit breaker is applied to the circuit of AC 50HZ, insulation voltage 1000V, rated working voltage up to 690V, rated current up to 800A, which to distribute the power and protect the circuit and power source against overload, short-circuit and under voltage damage. Especially, when the current is lower 630A, it also can protect the motor. Normally breaker can infrequently invert and starting of motor.

The product can be installed vertically and horizontally.

The product is applied to insulation, sign:  $\text{—} \diagup \text{—} \text{—} \text{—}$

#### Model No.



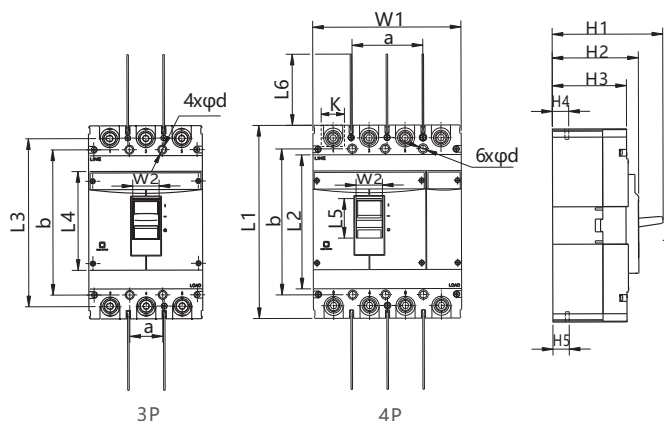
#### Normal operating condition and installation condition

1. Installation location no more than 2000m
2. Temperature: not higher than +40°C, and no lower than -5°C, and the average temperature no higher than +35°C
3. The relative humidity: no more than 50%, when temperature is +40°C. The product can withstand the higher humidity under lower temperature, for instance, when temperature at +20°C, the product can withstand 90% relative humidity.
4. Class of pollution: 3 Class
5. Main circuit breaker installation type: III class, Auxiliary circuit and control circuit installation type: II class
6. The max angle of installation is 22.5°

Model	Frame class rated current In(A)	Rated current In(A)	Rated working voltage Ue(V)	Rated insulation voltage(V)	Pole	Rated limited short circuit breaking capacity	Rated limit/Rated operation Icu/Ics(KA)		Arc distance (mm)
							AC400V	AC690V	
RDM5-125	125	10,16,20,25,32,40,50,63,80,100,125	400/690	1000	2,3,4	L	50/35	20/10	≤50
							70/50	20/12	
							100/70	30/15	
RDM5-160	160	63,80,100,125,140,160	400/690	1000	2,3,4	L	35/23	10/5	≤50
							50/35	15/8	
RDM5-250	250	100,125,160,180,200,225,250	400/690	1000	2,3,4	L	50/35	20/10	≤50
							70/50	20/12	
							100/70	30/15	
RDM5-400	400	200,225,250,315,350,400	400/690	1000	3,4	L	50/50	20/10	≤100
							70/70	25/15	
							100/75	35/18	
RDM5-630	630	400,500,630	400/690	1000	3,4	L	50/50	20/10	≤100
							70/70	25/15	
							100/75	35/18	
RDM5-800	800	500,630,700,800	400/690	1000	3,4	L	65/65	20/10	≤100
							75/75	25/15	
							100/75	35/20	

External and installation dimensions

RDM5-125~800 front plate wiring appearance and installation dimension

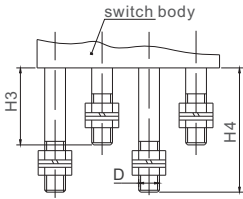


Model	Poles	Front plate wiring														Mounting dimension		
		L1	L2	L3	L4	L5	L6	W1	W2	H1	H2	H3	H4	H5	K	a	b	d
RDM5-125L	3	130	-	116.5	85	-	49.5	75	11	80.5	71	56	24.5	24.5	16	25	111	3.5
	4	130	-	116.5	85	-	49.5	100	11	80.5	71	56	24.5	24.5	16	25	111	3.5
RDM5-125M/H	2	150	-	132	88	31	52	62	14.5	110	96	82	29.5	29.5	18	-	129	4.5
	3	150	-	132	88	31	52	92	14.5	110	96	82	29.5	29.5	18	30	129	4.5
RDM5-250L	3	165	-	144	102	33	65	107	14	96	76	67	23	23	23	35	126	4.5
	4	165	-	144	102	33	65	142	14	96	76	67	23	23	23	70	126	4.5

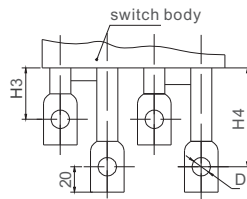
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Model	Poles	Front plate wiring														Mounting dimension		
		L1	L2	L3	L4	L5	L6	W1	W2	H1	H2	H3	H4	H5	K	a	b	d
RDM5-250M/H	2	165	-	144	102	33	65	75	14	115	94	85	23	23	23	-	126	4.5
	3	165	-	144	102	33	65	107	14	115	94	85	23	23	23	35	126	4.5
	4	165	-	144	102	33	65	142	14	115	94	85	23	23	23	70	126	4.5
RDM5-400L/M/H	3	257	132	224	132	53	100	150	35	148	117	101	38	38	33	44	194	7
	4	257	132	224	132	53	100	198	35	148	117	101	38	38	33	94	194	7
RDM5-630L/M/H	3	270	146	235.5	146	52.5	100	182	35.5	166	119	106	45	42	44	58	200	7
	4	270	146	235.5	146	52.5	100	240	35.5	166	119	106	45	42	44	116	200	7
RDM5-800L/M/H	3	280	148	243	148	52	100	210	35	168	122	108	43	41.5	44.5	70	243	7
	4	280	148	243	148	52	100	280	35	168	122	108	43	41.5	44.5	140	243	7

## RDM5-125~800 back plate wiring appearance and installation dimension

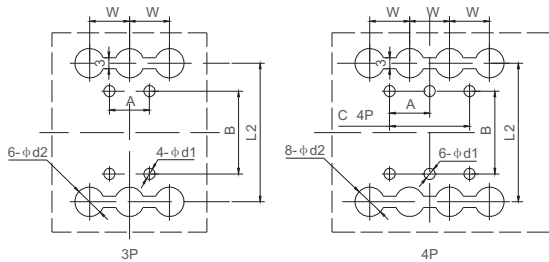


RDM5-125,250 back plate wiring



RDM5-400,630,800 back plate wiring

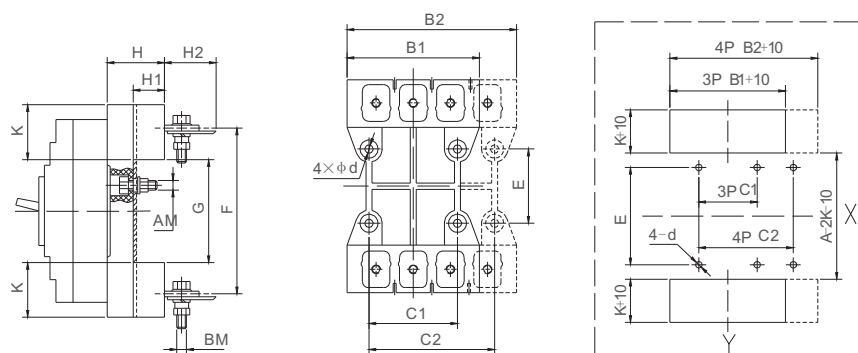
## Installation hole dimension of back plate wiring



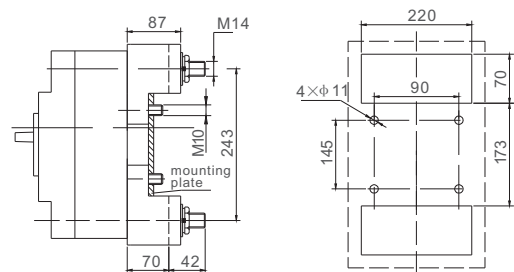
## RDM5-125~800 Installation hole dimension of back plate wiring

Model	Dimension code									
	H3	H4	D	W	L2	d2	A	B	C	d1
RDM5-125L	39.5	69.5	M6	25	116	12	25	111	50	4.5
RDM5-125M/H	64	100	M8	30	132	24	30	108	60	5.5
RDM5-250L	72	101	M10	30	145	15	35	126	70	5.5
RDM5-250M/H	70	100	M10	35	144	26	35	122	70	5.5
RDM5-400	71	105.5	φ12	48	224	32	44	194	94	7
RDM5-630	46	105	φ16	58	234	37	58	200	116	7
RDM5-800	105	105	φ16	70	243	48	70	243	70	7.5

RDM5 plug-in wiring appearance and installation dimension



Installation plate hole dimension(mm)



RDM5-800 3P plug-in type appearance dimension and installation plate hole drawing

RDM5-125~800 3P plug-in type appearance dimension and installation plate hole dimension

Model	Dimension code															
	A	B1	B2	C1	C2	E	F	G	K	H	H1	H2	H3	AM	BM	4-d
RDM5-125L	136	75	100	51	76	60	116	92	12	-	-	-	-	M6	M8	φ4.5
RDM5-125M/H	168	91	125	60	90	56	132	92	38	48	32.5	32.5	18	M6	M8	φ6.5
RDM5-250L	184	109	144	70	105	74.5	146	104	30	-	-	-	15	M6	M8	φ6
RDM5-250M/H	186	107	145	70	105	54	144	94	45.5	49.5	33.5	34	15	M6	M8	φ6.5
RDM5-400	280	149	200	60	108	129	224	170	55	59.5	40	44	23.5	M8	M12	φ8.5
RDM5-630	300	182	242	100	158	123	234	170	65	60	40	50	30.5	M8	M12	φ8.5
RDM5-800	305	210	280	90	162	146	242	181	62	87	60	-	-	M10	M14	φ11