

Industrial & Electrical Components

Moulded Case Circuit Breaker

Part No.

RDM3

Feature

- Energy distribution, overload/short-circuit/under-voltage protection.
- Used for circuit of AC 50/60Hz, rated insulation voltage up to 800V, rated working voltage up to 690V, rated working current 10-630A.
- As per standard IEC60947-2, GB14048.2



ORDERING INFORMATION

RDM3 - 100 - S P - 4 - 2

① ② ③ ④ ⑤ ⑥

- ① Series: RDM7LE series
- ② Shell grade: 63, 100, 225, 400, 630
- ③ Break capacity: S = Standard version
H = Superior version
- ④ Handle: Nil = Manual
P = Electrical
Z = Rotary
- ⑤ Pole: 2, 3, 4
- ⑥ Protection: Nil = Power protection
2 = Motor protection

TECHNICAL DATA

Model	Shell grade rated current Inm (A)	Rated current In (A)	Rated operating Voltage (V)	Rated isolating voltage (V)	Icu (kA)	Ics (kA)	No. of pole
RDM3-63L	63	6, 10, 16, 20, 25, 32, 40, 50, 63	400	500	10	5	3
RDM3-63M	63		400		15	10	3, 4
RDM3-100L	100	16, 20, 25, 32, 40, 50, 63, 80, 100	690	800	35/10	22/5	3
RDM3-100M	100		400		50	35	2, 3, 4
RDM3-225L	225	100, 125, 160, 180, 200, 225	690	800	35/10	25/5	3
RDM3-225M	225		400		50	35	2, 3, 4
RDM3-400L	400	225, 250, 315, 350, 400	690	800	50/15	35/8	3, 4
RDM3-400M	400		400		65	35	3
RDM3-630L	630	400, 500, 630	690	800	50/15	35/8	3, 4
RDM3-630M	630		400		65	45	3

Note: All test parameter is under 400V, 6A without thermal actuating trip

WORKING CONDITIONS

> Ambient Temperature

The circuit breaker can work at ambient temperature from -5°C to $+40^{\circ}\text{C}$ (except special demand).

> Altitude

The circuit breaker can work normally at altitude within 2000m.

> Class of pollution

The class of pollution where it is installed is Class 3.

> Mounting type

The circuit breaker is Type III.

> Mounting position

The circuit breaker can be installed vertically, horizontally or flatly, which will not decrease its electric characteristics.

> Environmental factors are adequately considered in the design of circuit breaker, with many recoverable and degradable materials.

ACTION CHARACTERISTICS

Power protection

	I / In	Time
Non-tripping current I_{nt}	1.05	2h ($I_n > 63\text{A}$), 1h ($I_n \leq 63\text{A}$)
Tripping current I_t	1.3	2h ($I_n > 63\text{A}$), 1h ($I_n \leq 63\text{A}$)

Motor protection

I/In	Time
1.0	>2h
1.2	$\geq 2\text{h}$
1.5	$\leq 4\text{min}$ ($10 \leq I_n \leq 225$)
	$\leq 8\text{min}$ ($225 \leq I_n \leq 630$)
7.2	$4\text{s} \leq T \leq 10\text{s}$ ($10 \leq I_n \leq 225$)
	$6\text{s} \leq T \leq 20\text{s}$ ($225 \leq I_n \leq 630$)

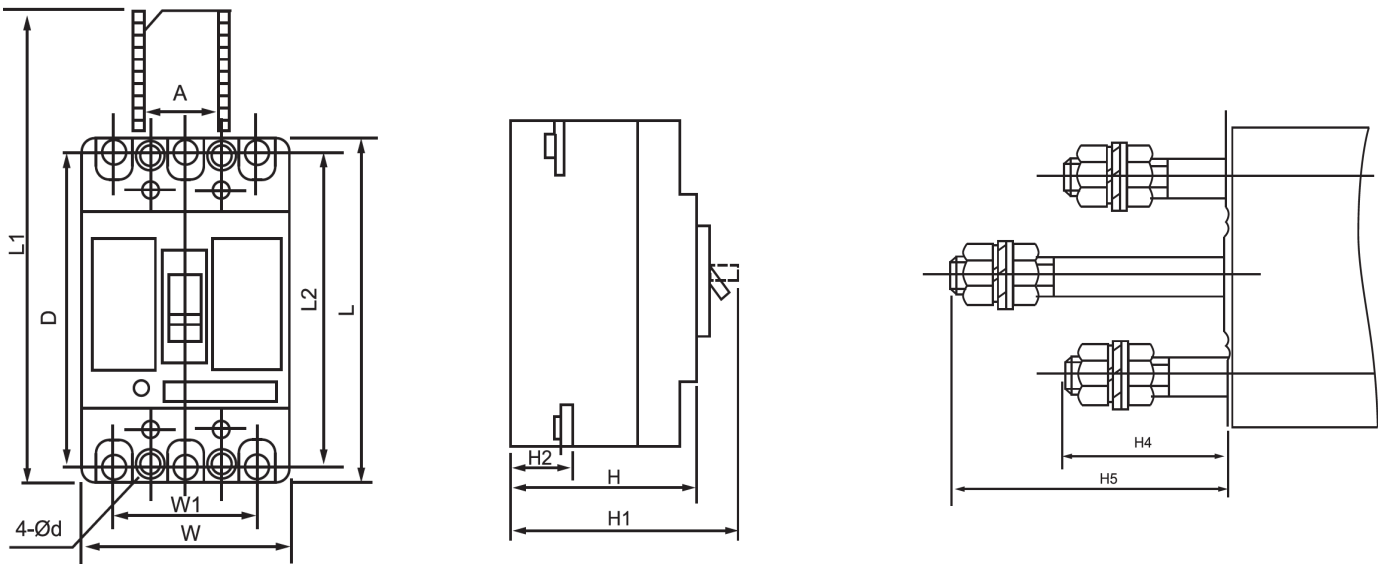
ACCESSORIES

Code	Name	Code	Name
208	Warning contact	218	Shunt trip
308		318	Warning contact
210	Shunt trip	228	Auxiliary contact
310		328	Warning contact
220	Auxiliary contact	238	Under-voltage trip
320		338	Warning contact
230	Under-voltage trip	248 348	Shunt trip
330			Auxiliary contact
240	Shunt trip	268	Warning contact
340			2 Auxiliary contact
260	2 Auxiliary contact	368	Warning contact
360			Auxiliary contact
270	Auxiliary contact	278 378	Under-voltage trip
370			Warning contact

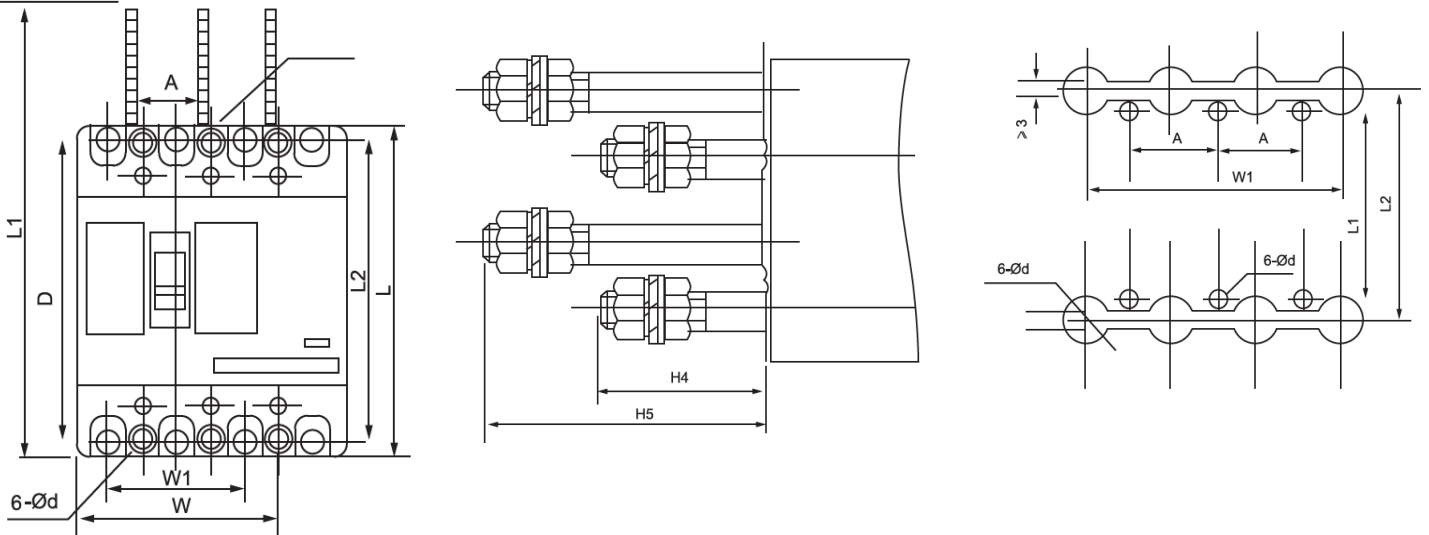
Note: 200 indicates circuit breaker body with electromagnetic release only;

300 indicates circuit breaker body with electromagnetic and thermal actuating trip

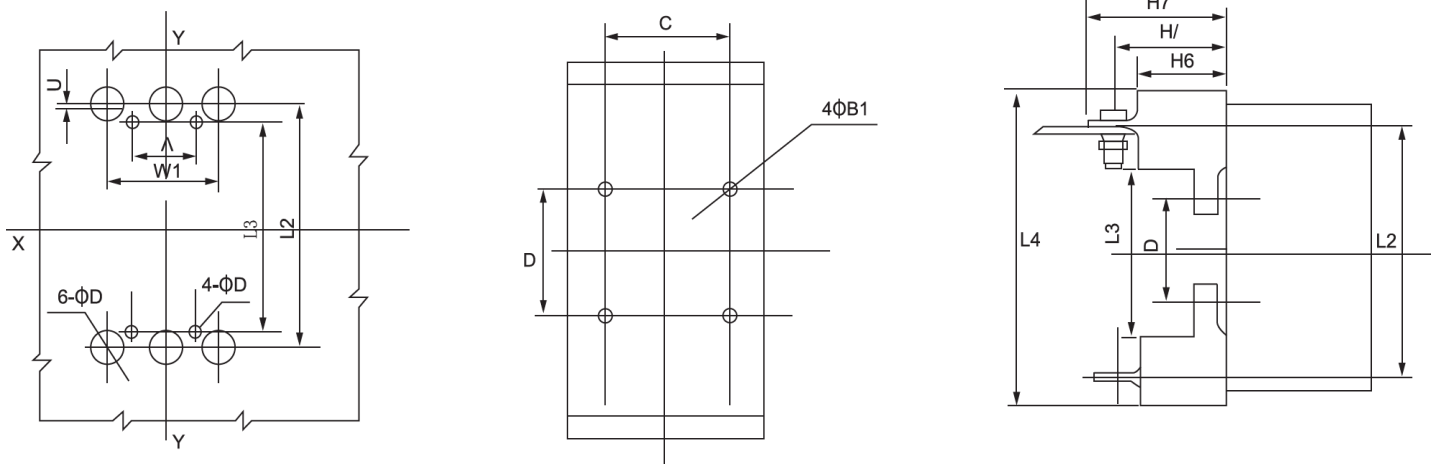
Front wiring diagram



Rear wiring diagram



Back wiring diagram (Plug-in type)



Model	Front wiring												Rear wiring				
	W	L	H	W1	L1	L2	H1	H2	L3	E	F	G	H3	H4	L2	L3	ød
RDM3-100 2P	65	150	86	30	200	132	104	24	90	51	23	4.0	53	93	132	90	22
RDM3-100 C, L	92	150	86	60	200	132	86	24	90	51	23	4.0	53	93	132	90	22
RDM3-100 M, H	92	150	86	60	200	132	104	24	90	51	23	4.0	53	93	132	90	22
RDM3-100 4P	122	150	86	90	200	132	104	24	90	51	23	4.0	53	93	132	90	22
RDM3-160,225 2P	75	165	103	35	265	144	127	24	93	53	24	2.0	53	100	144	93	24
RDM3-160,225C, L	107	165	86	70	265	144	110	24	93	53	24	2.0	55	100	144	93	24
RDM3-160,225M, H	107	165	103	70	265	144	127	24	93	53	24	2.0	55	100	144	93	24
RDM3-160,225 4P	142	165	103	105	265	144	127	24	93	53	24	4.0	55	100	144	93	24
RDM3-400C, L, M, H	150	257	106.5	96	457	224	155	38	164	90	66	6.5	48.5	108.5	224	164	32
RDM3-400 4P	198	257	106.5	144	457	224	147	38	164	90	66	6.5	48.5	108.5	224	164	32
RDM3-630C, L, M, H	182	270	110	116	470	234	160	43	164	90	66	6.5	49	109	234	164	40
RDM3-630 4P	240	270	110	174	470	234	160	43	164	90	66	6.5	49	109	234	164	40
RDM3-800M, H	210	280	108	140	480	243	155	35	458	106	66	4.5	62	62	243	158	48
RDM3-800M 4P	280	280	115.5	210	480	243	155	43	458	81	66	4.5	62	62	243	158	48

Back wiring diagram								Hole size					
L4	L5	H5	H6	H7	C	D	ødI	A	B	ød	A	B	H
135	100	31	36	43	60	50	5.5	25	117	3.5	90	79	28
135	100	31	36	43	60	50	5.5	25	117	3.5	90	79	28
135	100	31	36	43	60	75	5.5	25	117	3.5	90	104	28
-	-	-	-	-	-	-	-	-	129	4.5	-	-	-
168	90	50	64	76	56	60	6.5	30	129	4.5	90	94	41
168	9	50	64	76	56	60	6.5	30	129	4.5	90	94	41
168	90	50	64	76	56	90	6.5	30	129	4.5	90	125	41
-	-	-	-	-	-	-	-	-	126	4.5	-	-	-
186	94	50	71.5	71.5	51	70	6.5	35	126	4.5	88	110	51
186	94	50	71.5	71.5	51	70	6.5	35	126	4.5	88	110	51
186	94	50	71.5	71.5	51	105	6.5	35	126	4.5	88	145	51
279	170	60	83.5	106.5	129	60	8.5	44	194	7.0	166	152	58
279	170	60	83.5	106.5	129	108	8.5	44	197	7.0	166	200	58
299	170	60	92	110	123	100	8.5	58	200	7.0	166	185	68
299	170	60	92	110	123	158	8.5	58	200	7.0	166	242	68
305	181	87	97	148	146	90	11	70	243	7.0	183	213	68
299	181	87	97	148	146	140	11	70	243	7.0		213	68