

NHR40 Fuse-switch Disconnector

1. General

1.1 NHR40 series switch-disconnector with fuse
is applicable in the circuit of AC50Hz,
rated voltage AC690V and below, DC440V and below,
rated current up to 630A.
NHR40 series are infrequently manually operated
multipolar fuse combination switches,
They break or switch off on load
and provide safely isolation
and protection against overcurrent
for any voltage electrical circuit.

1.2 Standard: IEC/EN 60947-3.

2. Type designation

N HR 40 - □ / □ □ □ □

- H:With box(only applicable to front operation)
- W: Extended rotary handle
  Blank: Direct rotary handle
- C: Lateral operation
  Blank: Front operation
- Three-pole
  Four-pole
- Conventional thermal current
- Series No.

Note: This switch should be used with RT36 (NT,RT16) or RT20 series fuses provided by the user.

3. Technical data

Conventional thermal current (A)		63	160	250	400	630
Rated current voltage (A)		20、32、63	100、125、160	200、250	315、400	630
Rated insulation voltage (V)		1000V				
Associated current (A)	400V AC22	20、32、63	100、125、160	200、250	315、400	630
	400V AC23	20、32、63	100、125、160	200、250	315、400	630
	690V AC22	20、32、63	100、125、160	200、250	315	425
	690V AC23	20、32、63	100、125、160	200、250	315	425
Operation force (N)	Specification	60~80	65~100	80~120	100~150	230
Associated fuse		00C	00	1	2	3

Remark:
1) With terminal shield
2) Two phases are connected in series according to the phase character

4. Structure and features

4.1 The switch adopts full-enclosed structure of reliable thermal characteristic to ensure reliable operation.

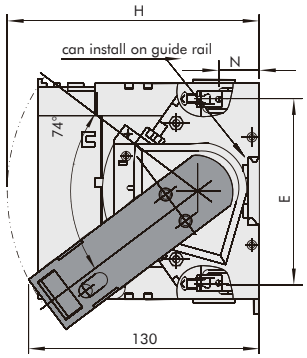
4.2 Each phase has two groups of contact system with double breaking points, these two groups of contacts are serially connected, which has improved its current breaking capability, and ensures the reliability of power supply disconnecting.

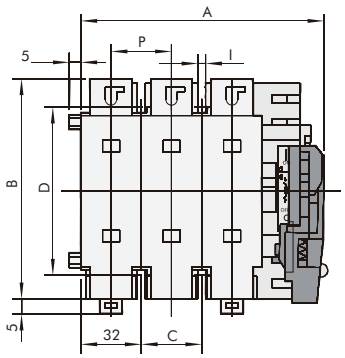
4.3 Manual rotated operation mechanism has energy storage spring,so the active contact can operate swiffly with no relation with operation speed.

5. Overall and mounting dimensions (mm)

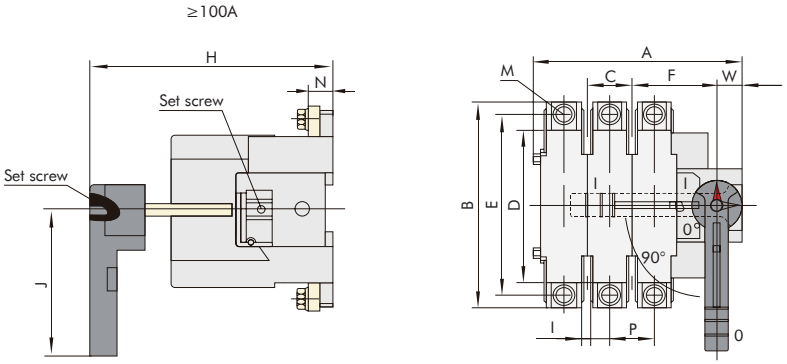
Facade operation inside the switchgear

≤63A

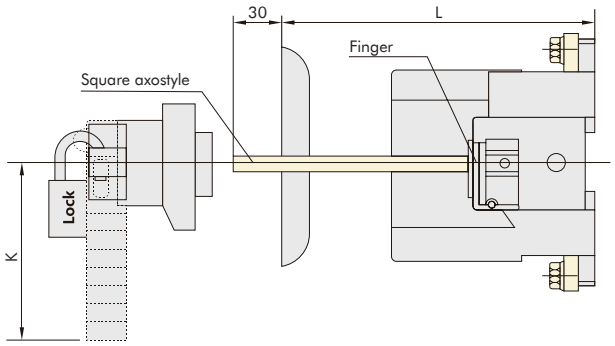


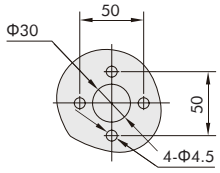


Front operation inside the switchgear

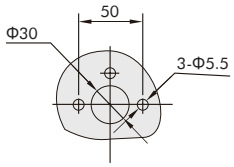


Facade operation outside the switchgear





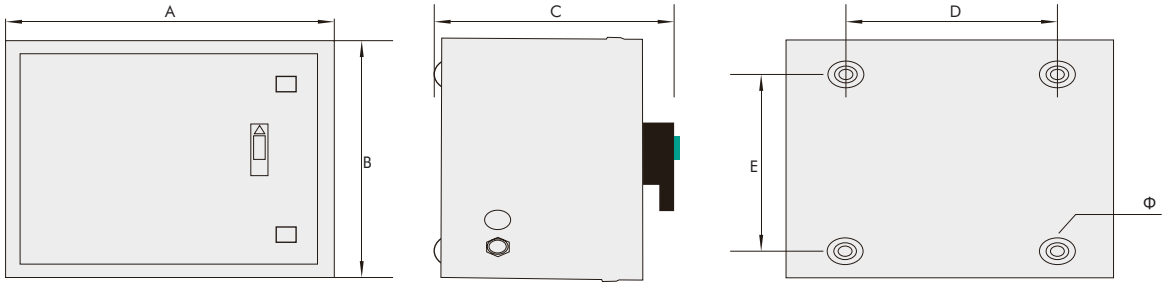
100-400A Boring dimension on the panel



630A Boring dimension on the panel

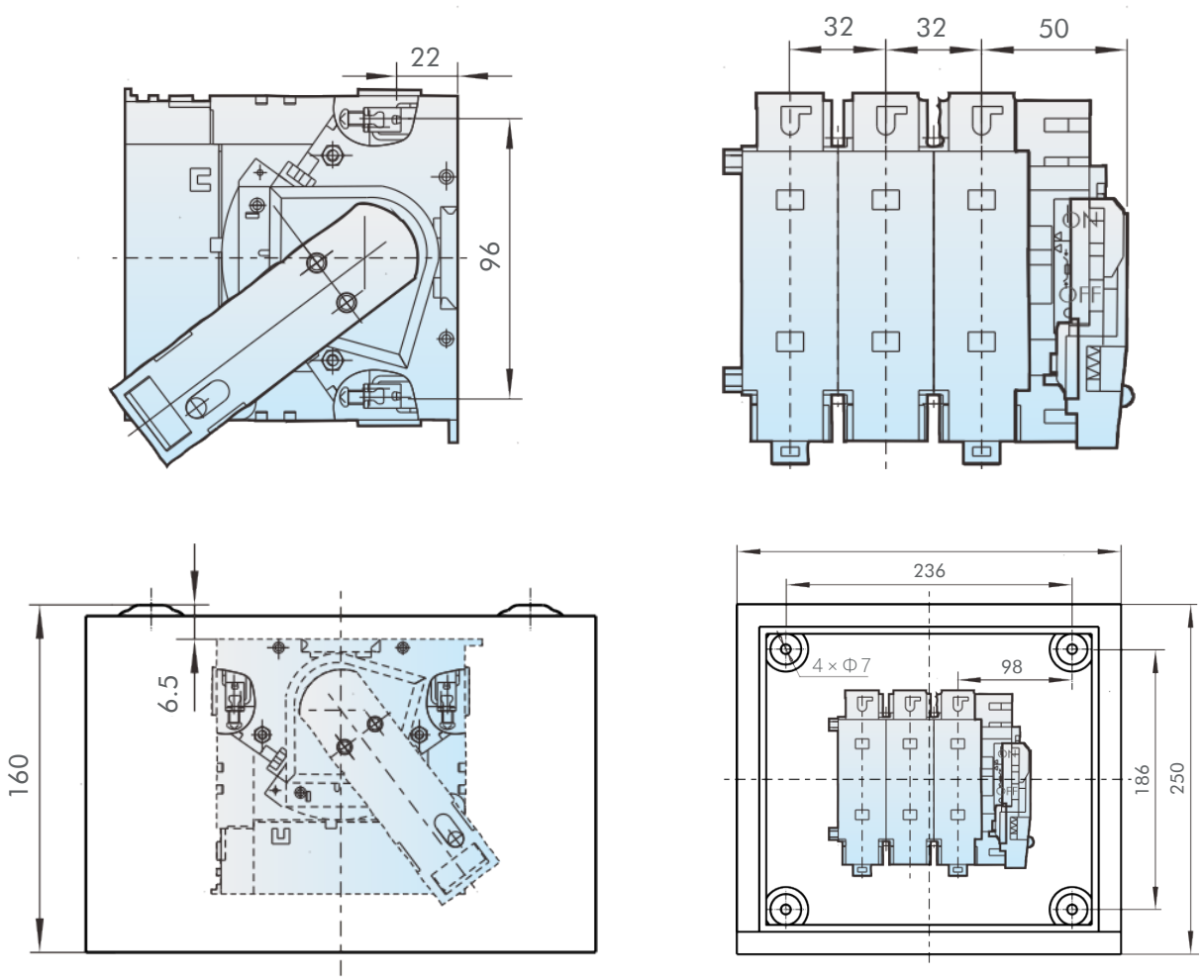
Specifcation	Overall and mounting dimensions														
	A	B	C	D	E	F	H	I	J	L	M	N	W	P	K
63/2	108	120	-	92	96	-	160	4.5	-	-	-	22	-	32	-
63/3	140	120	32	92	96	-	160	4.5	-	-	-	22	-	32	-
63/4	172	120	60	92	96	-	160	4.5	-	-	-	22	-	32	-
160/2	128	162	36	120	142	67.5	190	5.5	115	205~325	8	19	21	36	126
160/3	165	162	36	120	142	67.5	190	5.5	115	205~325	8	19	21	36	126
160/4	202	162	36	120	142	67.5	190	5.5	115	205~325	8	19	21	36	126
250/2	185	195	60	160	166	91.5	210	5.5	145	205~325	10	19	21	60	126
250/3	240	195	60	160	166	91.5	210	5.5	145	205~325	10	19	21	60	126
250/4	300	195	60	160	166	91.5	210	5.5	145	205~325	10	19	21	60	126
400/2	214	205	66	170	176	96.5	210	5.5	145	205~325	10	25	21	66	126
400/3	280	205	66	170	176	96.5	210	5.5	145	205~325	10	25	21	66	126
400/4	3462	205	66	170	176	96.5	210	5.5	145	205~325	10	25	21	66	126
630/3	3463	300	250	250	260	393	50	Φ9	190	330~440	12	74	37	80	190
630/4	4263	300	250	250	260	393	50	Φ9	190	330~440	12	74	37	80	190

Front operation with box type



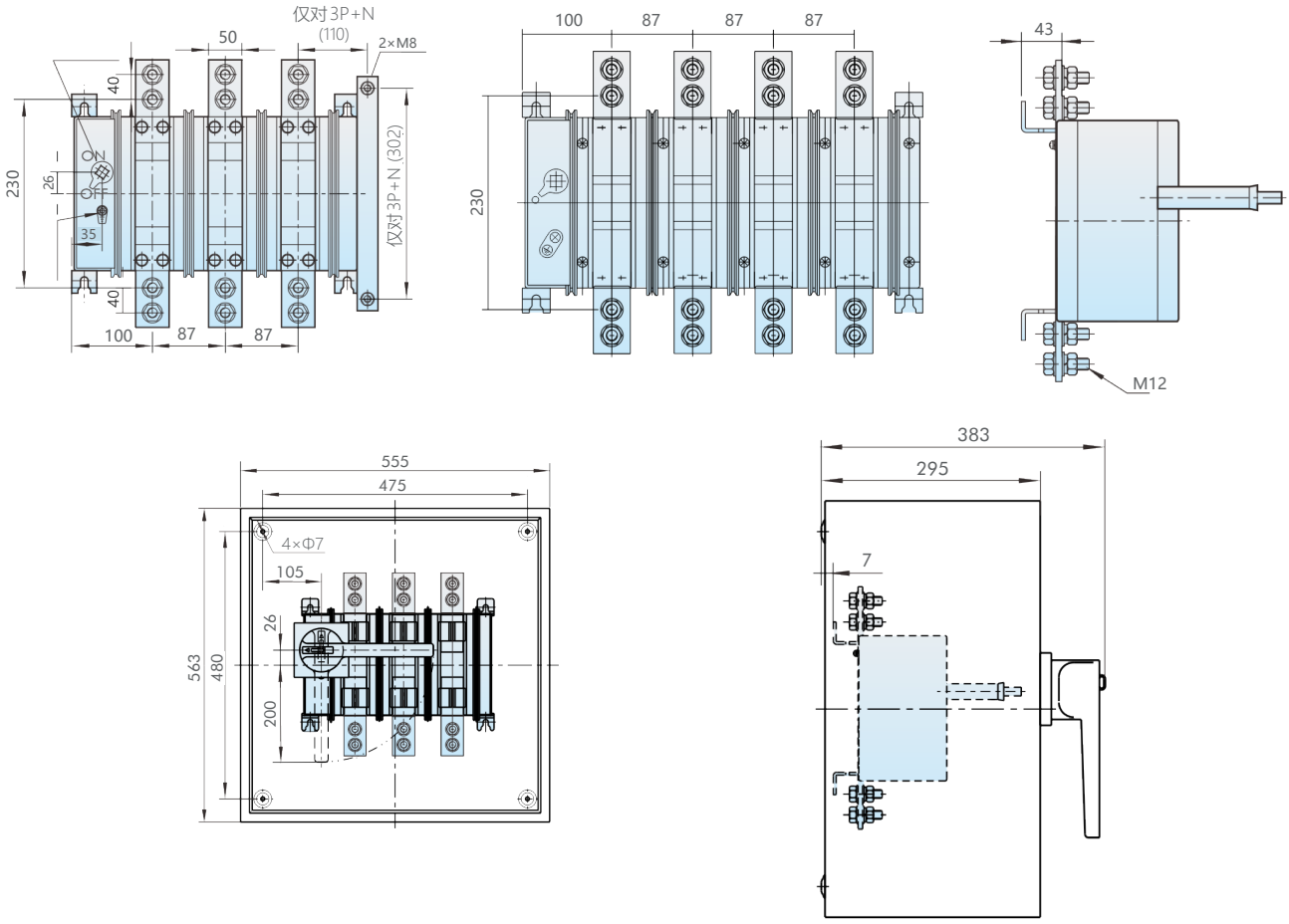
Specification	A	B	C	D	E	Φ
HR40-20-63/3	306±1.25	250±1.25	155±1.25	236±1.25	186±1.25	9
HR40-100/160/3	306±1.25	250±1.25	155±1.25	236±1.25	186±1.25	9
HR40-200/250/3	380±1.25	400±1.25	215±1.25	260±1.25	250±1.25	9
HR40-315/400/630/3	570±1.25	484±1.25	310±1.25	490±1.25	404±1.25	9
HR40-20-63/4	306±1.25	250±1.25	155±1.25	236±1.25	186±1.25	9
HR40-100/160/4	306±1.25	250±1.25	155±1.25	236±1.25	186±1.25	9
HR40-200/250/4	424±1.25	314±1.25	315±1.25	356±1.25	250±1.25	9
HR40-315/400/630/4	570±1.25	484±1.25	310±1.25	490±1.25	404±1.25	9

Fig. 4 Installation dimensions of switch body and box body for operation in cabinet (only for 63A and below)



2.7 HH15-1000/QAH

Fig. 5 Installation dimensions of switch body and box body for operation in cabinet



Modle	Specification														
	A	B	C	D	E	G	H	I	J	M	N	O	P	R	W
63A	380	400	312	336	94	220	308	47	96	-	22	7	32	140	21
160A	380	400	312	336	94	220	308	49	142	8	19	20	36	140	21
250A	380	400	312	336	94	220	308	61	166	10	19	32	60	140	21
400A	446	388	386	305	76	207	294	64	176	10	25	50	66	140	21
630A	570	487	490	404	58	315	403	84	268	12	74	50	80	200	37