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KNB□-32

MINIATURE CIRCUIT BREAKER

1. Model and meaning

KN B □ - 32

- Rated current of frame
  1 means 3000A, 2 means 4500A, 6 means 6000A
- Mini circuit breaker
- Enterprise code

2. Application

KNB□-32 series Miniature Circuit Breaker is nice in appearance, reasonable in structure, sound in feature and high in breaking capacity. Installed with standard din rail, it is convenient and easy in usage. It is mainly used in the line of AC 50/60Hz, rated working voltage to 240V, and rated currentto 32A as protection against overload and short-circuit. It can be used as infrequent on-and-off operation and changeover.

It complies with standard of IEC/EN60898-1.

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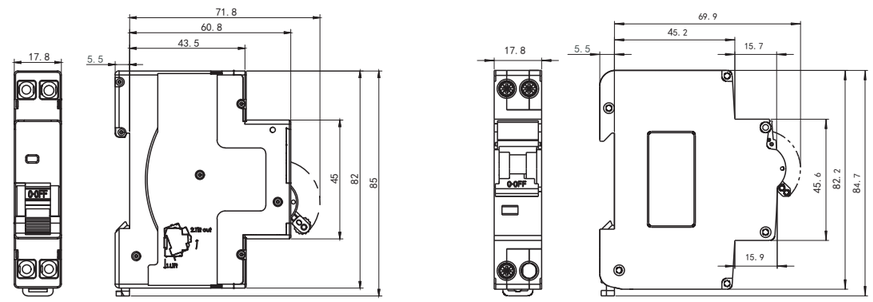
3. Basic specification and main parameters

Frame class	40A
Rated working voltage	240V
Rated frequency	50/60Hz
Rated working current	1,2,3,4,5,6,10,16,20,25,32,40A
Making and breaking capacity	3000/4500/6000A
Release type	B,C,D
Poles	1P+N
Mechanical life	8000
Electric life	4000

4. The over-current tripping unit protection feature

Sequence NO.	Release	Test current I/In	Start state	Tripping time	Expected result
1	C	1.13In	Cold state	t≤1h	Not tripping
2	C	1.45In	Start right after the serial NO. 1 test	t<1h	Tripping
3	C	2.55In	Cold state	1s<t<60s	Tripping
4	C	5In	Cold state	t≤0.1s	Not tripping
5	C	10In	Cold state	t<0.1s	Tripping

5. Dimensions(mm)



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KNB1-63

MINIATURE CIRCUIT BREAKER

1. Model and meaning

KN B 1 - 63

- 63 — Rated current of frame
- 1 — Desige Code
- B — Mini circuit breaker
- KN — Enterprise code

2. Application

KNB1-63 series Miniature Circuit Breaker is nice in appearance, reasonable in structure, sound in feature and high in breaking capacity. Installed with standard din rail, it is convenient and easy in usage. It is mainly used in the line of AC 50/60Hz, rated working voltage to 240V/415V, and rated current to 63A as protection against overload and short-circuit. It can be used as infrequent on-and-off operation and changeover.

It complies with standard of IEC/EN60898-1 and IEC/EN60947-2.

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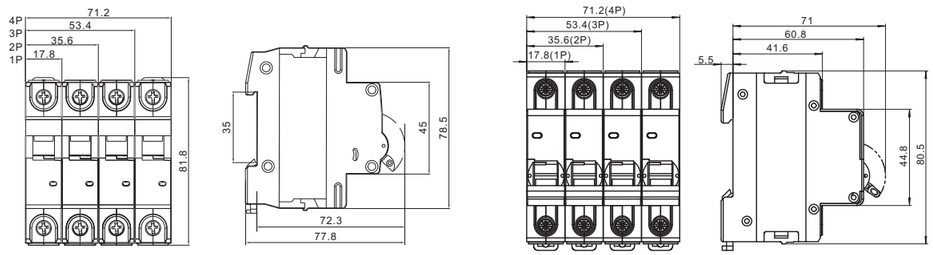
3. Basic specification and main parameters

Frame class	63A
Rated working voltage	240V/415V
Rated frequency	50/60Hz
Rated working current	1,2,3,4,5,6,10,16,20,25,32,40,50,63A
Making and breaking capacity	6000A(6~40A), 4500A(50, 63A)
Release type	B, C, D
Poles	1, 2, 3, 4P
Mechanical life	20000
Electric life	4000

4. The over-current tripping unit protection feature

Sequence NO.	Release	Test current I/In	Start state	Tripping time	Expected result
1	B、C、D	1.13In	Cold state	t≤1h	Not tripping
2	B、C、D	1.45In	Start right after the serial NO. 1 test	t<1h	Tripping
3	B、C、D	2.55In	Cold state	1s<t<60s（In≤32A) 1s<t<120s(In>32A)	Tripping
4	B C D	3In 5In 10In	Cold state	t≤0.1s	Not tripping
5	B C D	5In 10In 20In	Cold state	t<0.1s	Tripping

5. Dimensions(mm)



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KNB1-63

MINIATURE CIRCUIT BREAKER

1. Model and meaning

KN B 1 - 63

- 63 — Rated current of frame
- 1 — Design code
- B — Mini circuit breaker
- KN — Enterprise code

2. Application

KNB1-63 series Miniature Circuit Breaker is nice in appearance, reasonable in structure, sound in feature and high in breaking capacity. Installed with standard din rail, it is convenient and easy in usage. It is mainly used in the line of AC 50/60Hz, rated working voltage to 240V/415V, and rated current to 63A as protection against overload and short-circuit. It can be used as infrequent on-and-off operation and changeover.

It complies with standard of IEC/EN60898-1 and IEC/EN60947-2.

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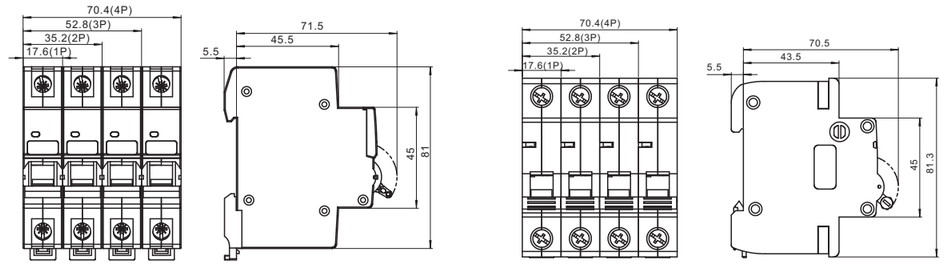
3. Basic specification and main parameters

Frame class	63A
Rated working voltage	240V/415V
Rated frequency	50/60Hz
Rated working current	1,2,3,4,5,6,10,16,20,25,32,40,50,63A
Making and breaking capacity	6000A(6~40A), 4500A(50, 63A)
Release type	B, C, D
Poles	1, 2, 3, 4P
Mechanical life	20000
Electric life	4000

4. The over-current tripping unit protection feature

Sequence NO.	Release	Test current I/In	Start state	Tripping time	Expected result
1	B、C、D	1.13In	Cold state	t≤1h	Not tripping
2	B、C、D	1.45In	Start right after the serial NO. 1 test	t<1h	Tripping
3	B、C、D	2.55In	Cold state	1s<t<60s(In≤32A) 1s<t<120s(In>32A)	Tripping
4	B C D	3In 5In 10In	Cold state	t≤0.1s	Not tripping
5	B C D	5In 10In 20In	Cold state	t<0.1s	Tripping

5. Dimensions(mm)



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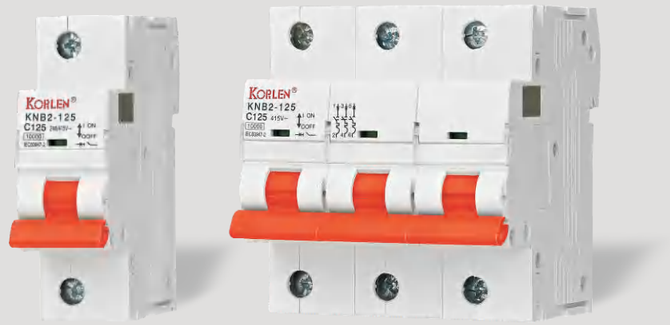

KNB1-125

MINIATURE CIRCUIT BREAKER

1. Model and meaning

KN B 1 - 125

- 125 — Rated current of frame
- 1 — Design code
- B — Mini circuit breaker
- KN — Enterprise code

2. Application

KNB1-125 series Miniature Circuit Breaker is nice in appearance, reasonable in structure, sound in feature and high in breaking capacity. Installed with standard din rail, it is convenient and easy in usage. It is mainly used in the line of AC 50/60Hz, rated working voltage to 240V/415V, and rated current to 125A as protection against overload and short-circuit. Itcan be used as infrequent on-and-off operation and changeover.

It complies with standard of IEC60898-1 and IEC60947-2.

MCB

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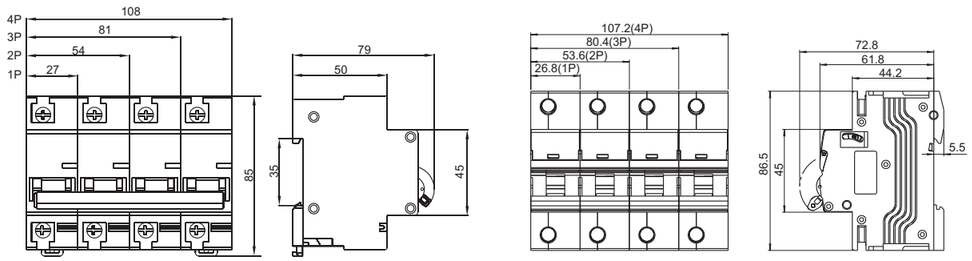
3. Basic specification and main parameters

Frame class	125A
Rated working voltage	240V/415V
Rated frequency	50/60Hz
Rated working current	63, 80, 100, 125
Making and breaking capacity	10KA(63,80,100A), 6KA(125A)
Release type	B, C, D
Poles	1, 2, 3, 4P
Mechanical life	20000
Electric life	2000

4. The over-current tripping unit protection feature

Sequence NO.	Release	Test current I/In		Start state	Tripping time		Expected result
	IEC60898-1	IEC60898-1	IEC60947-2		IEC60898-1	IEC60947-2	
1	C、D	1.13In	1.05In	Cold state	t≤1h(In≤63A) t≤2h(In>63A)	t≤1h(In≤63A) t≤2h(In>63A)	Not tripping
2	C、D	1.45In	1.3In	Start right after the serial NO.1 test	t<1h(In≤63A) t<2h(In>63A)	t<1h(In≤63A) t<2h(In>63A)	Tripping
3	C、D	2.55In		Cold state	1s<t<60s (In≤32A) 1s<t<120s (In>32A)		Tripping
4	C D	5In 10In	8In	Cold state	t≤0.1s	t≤0.2s	Not tripping
5	C D	10In 20In	12In	Cold state	t<0.1s	t<0.2s	Tripping

5. Dimensions(mm)



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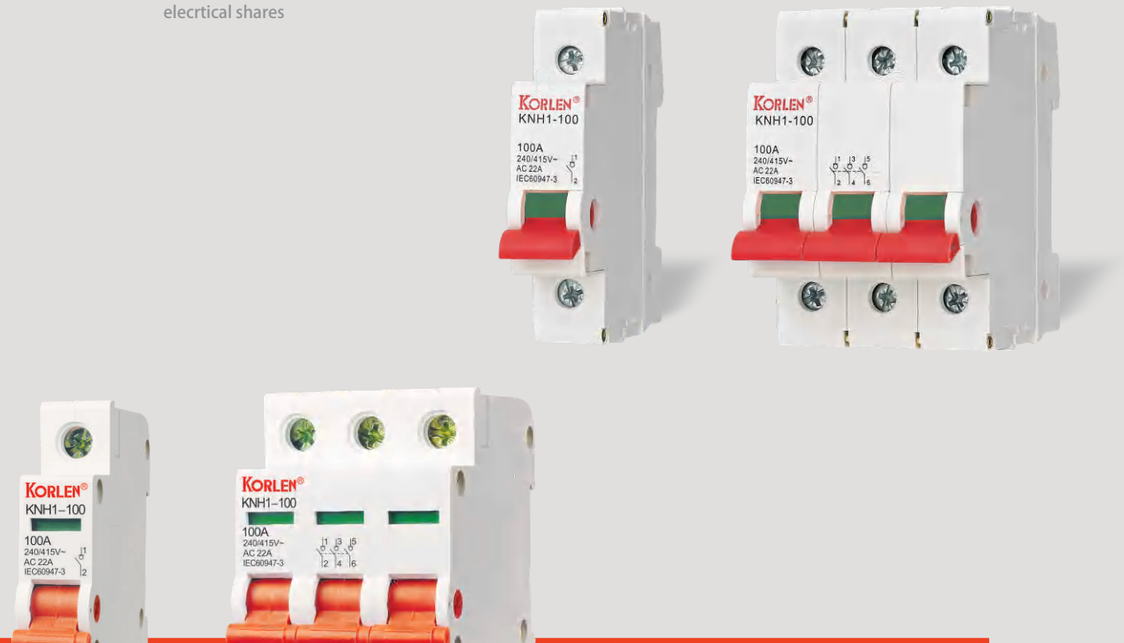


KNH1-100

ISOLATING SWITCH

1. Model and meaning

KN H 1 - 100

- 100 — Rated current of frame
- 1 — Design code
- H — Isolating switch
- KN — Enterprise code

2. Application

KNH1-100 series isolating switch is suitable for AC 50/60Hz, rated current up to 100A, rated voltage to 415V power distribution and control circuit, mainly used as the main switch in the terminal combination, can also be used to infrequently control various types of low power Electrical appliances and lighting are widely used in industrial and mining enterprises, high-rise buildings, businesses and homes.

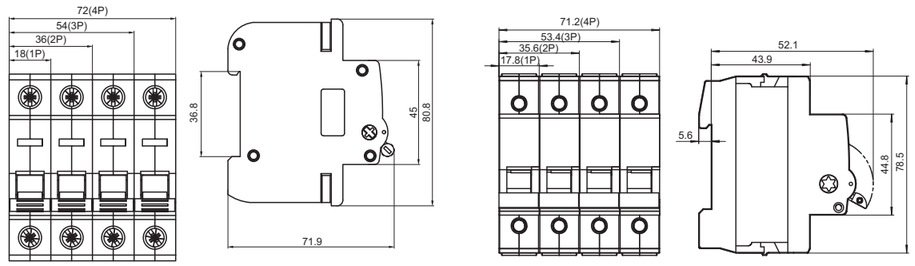
ISOLATOR

intertek CE CB RoHS ISO9001

3. Technical data

	Standard		IEC EN 60947 -3
Electrical features	Rated voltage	V	240 415
	Ue Rated current	A	32 ,40 ,63 ,80 , 100
	Ie Rated	Hz	50 60
	Rated impulse withstand voltage	V	4 000
	Rated short -time withstand current Icw		12Ie ,1s
	Rated making and breaking capacity		3Ie ,1 05Ue ,cosΦ =0 65
	Rated short circuit making capacity		20Ie ,t =0 1s
	Dielectric test voltage at ind .Freq .for 5s	kV	1 89
	Insulation voltage Ui	V	500
	Pollution degree		2
	Uilization category		AC -22A
Mechanical features	Electrical life		2000
	Mechanical life		10000
	Protection degree		IP20
	Ambient temperature (with daily average≤35℃	℃	-5 ...+40
	Storage temperature	℃	-25 ...+70
Installation	erminal size top /bottom for cable	mm^2	50
		AWG	18 -1 0
	Terminal size top /bottom for busbar	mm^2	35
		AWG	18 -2
	Tightening torque	N • m	2 5
		In-lbs	22
	Connection		From top and bottom

4. Dimensions(mm)



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KNH□-100

ISOLATING SWITCH

1. Model and meaning

KN H □ - 100

- Rated current of frame
- Design code
- Isolating switch
- Enterprise code

2. Application

KNH□-100 series isolating switch is suitable for AC 50/60Hz, rated current up to 100A, rated voltage to 415V power distribution and control circuit, mainly used as the main switch in the terminal combination, can also be used to infrequently control various types of low power Electrical appliances and lighting are widely used in industrial and mining enterprises, high-rise buildings, businesses and homes.

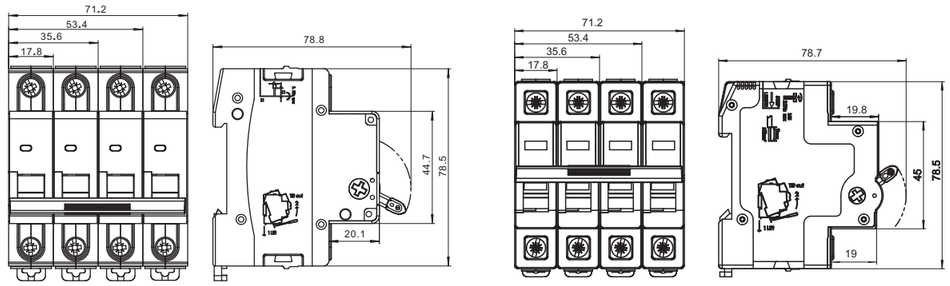
ISOLATOR

intertek CE CB RoHS ISO9001

3. Technical data

Electrical features	Standard		IEC EN 60947 -3
	Rated voltage	V	240 415
	Ue Rated current	A	32 ,40 ,63 ,80 , 100
	Ie Rated	Hz	50 60
	Rated impulse withstand voltage	V	4 000
	Rated short -time withstand current Icw		12Ie ,1s
	Rated making and breaking capacity		3Ie ,1 05Ue ,cosΦ =0 65
	Rated short circuit making capacity		20Ie ,t =0 1s
	Dielectric test voltage at ind .Freq .for 5s	kV	1 89
	Insulation voltage Ui	V	500
	Pollution degree		2
	Uilization category		AC -22A
Mechanical features	Electrical life		2000
	Mechanical life		10000
	Protection degree		IP20
	Ambient temperature (with daily average≤35℃	℃	-5 ...+40
	Storage temperature	℃	-25 ...+70
Installation	erminal size top /bottom for cable	mm^2	50
		AWG	18 -1 0
	Terminal size top /bottom for busbar	mm^2	35
		AWG	18 -2
	Tightening torque	N • m	2 5
		In-lbs	22
	Connection		From top and bottom

4. Dimensions(mm)



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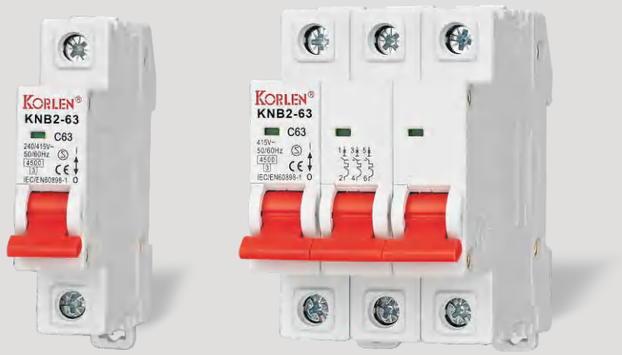


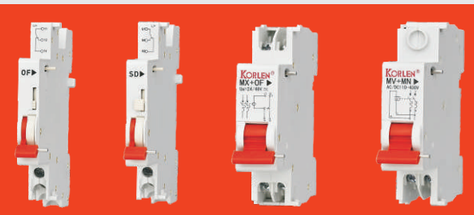
KNB2-63S1

MINIATURE CIRCUIT BREAKER

1. Model and meaning

KN B 2 - 63 S1

- Rated current of frame
- Design code
- Mini circuit breaker
- Enterprise code



OF SD MX MN+MV

2. Application

KNB2-63 series Miniature Circuit Breaker is nice in appearance, reasonable in structure, sound in feature and high in breaking capacity. Installed with standard din rail, it is convenient and easy in usage. It is mainly used in the line of AC 50/60Hz, rated working voltage to 240V/415V, and rated current to 63A as protection against overload and short-circuit. It can be used as infrequent on-and-off operation and changeover.

It complies with standard of IEC/EN60898-1 and IEC/EN60947-2.

MCB

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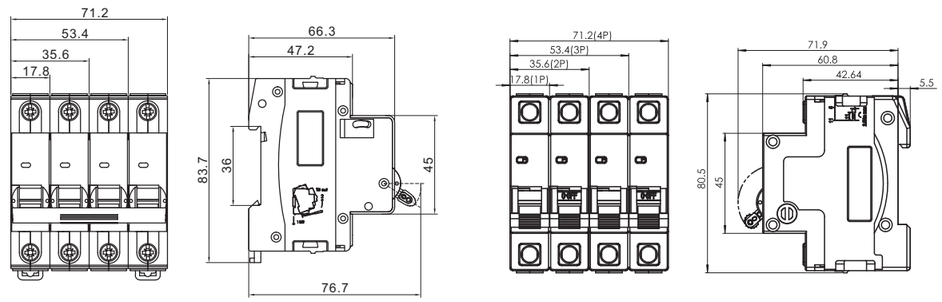
3. Basic specification and main parameters

Frame class	63A
Rated working voltage	240V/415V
Rated frequency	50/60Hz
Rated working current	1,2,3,4,5,6,10,16,20,25,32,40,50,63A
Making and breaking capacity	4500A
Release type	B, C, D
Poles	1, 2, 3, 4P
Mechanical life	20000
Electric life	4000

4. The over-current tripping unit protection feature

Sequence NO.	Release	Test current I/In	Start state	Tripping time	Expected result
1	B、C、D	1.13In	Cold state	t≤1h	Not tripping
2	B、C、D	1.45In	Start right after the serial NO. 1 test	t<1h	Tripping
3	B、C、D	2.55In	Cold state	1s<t<60s(In≤32A) 1s<t<120s(In>32A)	Tripping
4	B C D	3In 5In 10In	Cold state	t≤0.1s	Not tripping
5	B C D	5In 10In 20In	Cold state	t<0.1s	Tripping

5. Dimensions(mm)



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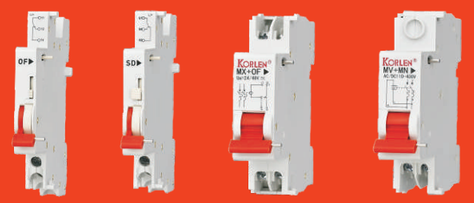
KNB2-63S2

MINIATURE CIRCUIT BREAKER

1. Model and meaning

KN B 2 - 63 S2

- Rated current of frame
- Design code
- Mini circuit breaker
- Enterprise code



OF SD MX MN+MV

2. Application

KNB2-63 series Miniature Circuit Breaker is nice in appearance, reasonable in structure, sound in feature and high in breaking capacity. Installed with standard din rail, it is convenient and easy in usage. It is mainly used in the line of AC 50/60Hz, rated working voltage to 240V/415V, and rated current to 63A as protection against overload and short-circuit. It can be used as infrequent on-and-off operation and changeover.

It complies with standard of IEC/EN60898-1 and IEC/EN60947-2.

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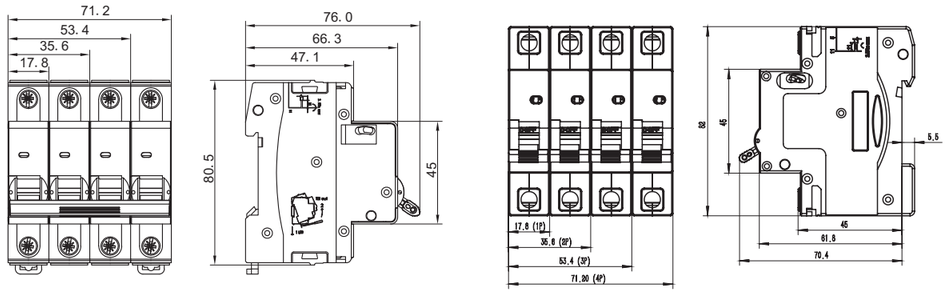
3. Basic specification and main parameters

Frame class	63A
Rated working voltage	240/415V
Rated frequency	50/60Hz
Rated working current	1,2,3,4,5,6,10,16,20,25,32,40,50,63A
Making and breaking capacity	6000A
Release type	B, C, D
Poles	1, 2, 3, 4P
Mechanical life	10000
Electric life	4000

4. The over-current tripping unit protection feature

Sequence NO.	Release	Test current I/In	Start state	Tripping time	Expected result
1	B、C、D	1.13In	Cold state	t≤1h	Not tripping
2	B、C、D	1.45In	Start right after the serial NO. 1 test	t<1h	Tripping
3	B、C、D	2.55In	Cold state	1s<t<60s(In≤32A) 1s<t<120s(In>32A)	Tripping
4	B C D	3In 5In 10In	Cold state	t≤0.1s	Not tripping
5	B C D	5In 10In 20In	Cold state	t<0.1s	Tripping

5. Dimensions(mm)



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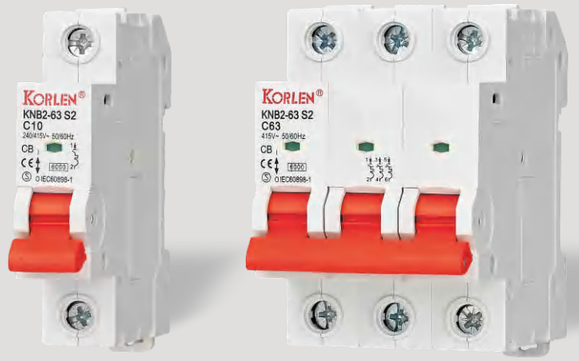

Indication
- OFF closed
- ON power
- Fault trip

KNB2-63S2

MINIATURE CIRCUIT BREAKER

1. Model and meaning

KN B 2 - 63 S2

- Rated current of frame
- Design code
- Mini circuit breaker
- Enterprise code

OF SD MX MN+MV

2. Application

KNB2-63 series Miniature Circuit Breaker is nice in appearance, reasonable in structure, sound in feature and high in breaking capacity. Installed with standard din rail, it is convenient and easy in usage. It is mainly used in the line of AC 50/60Hz, rated working voltage to 240V/415V, and rated current to 63A as protection against overload and short-circuit. It can be used as infrequent on-and-off operation and changeover.

It complies with standard of IEC/EN60898-1 and IEC/EN60947-2.

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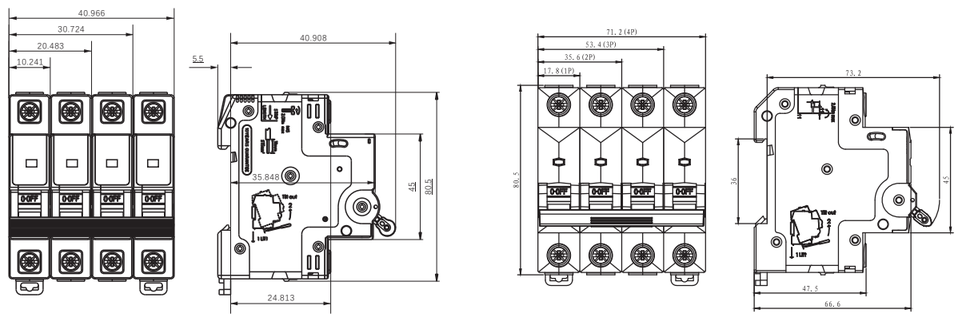
3. Basic specification and main parameters

Frame class	63A
Rated working voltage	240/415V
Rated frequency	50/60Hz
Rated working current	1,2,3,4,5,6,10,16,20,25,32,40,50,63A
Making and breaking capacity	6000A
Release type	B, C, D
Poles	1, 2, 3, 4P
Mechanical life	10000
Electric life	4000

4. The over-current tripping unit protection feature

Sequence NO.	Release	Test current I/In	Start state	Tripping time	Expected result
1	B、C、D	1.13In	Cold state	t≤1h	Not tripping
2	B、C、D	1.45In	Start right after the serial NO. 1 test	t<1h	Tripping
3	B、C、D	2.55In	Cold state	1s<t<60s（In≤32A) 1s<t<120s(In>32A)	Tripping
4	B C D	3In 5In 10In	Cold state	t≤0.1s	Not tripping
5	B C D	5In 10In 20In	Cold state	t<0.1s	Tripping

5. Dimensions(mm)



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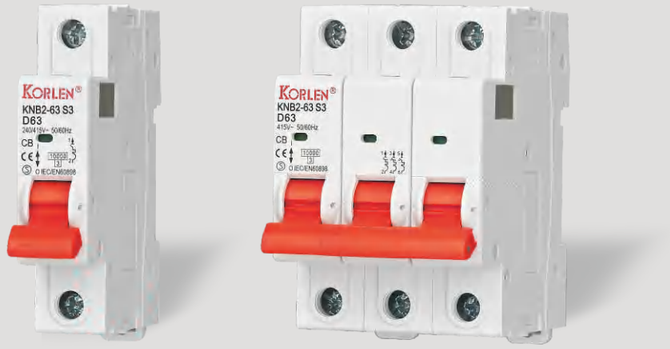


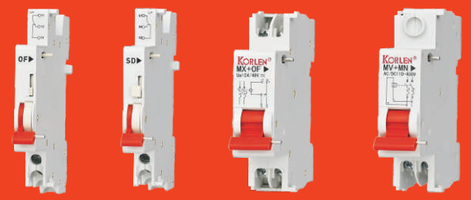
KNB2-63S3

MINIATURE CIRCUIT BREAKER

1. Model and meaning

KN B 2 - 63 S3

- 63 — Rated current of frame
- 2 — Design code
- B — Mini circuit breaker
- KN — Enterprise code



OF SD MX MN+MV

2. Application

KNB2-63 series Miniature Circuit Breaker is nice in appearance, reasonable in structure, sound in feature and high in breaking capacity. Installed with standard din rail, it is convenient and easy in usage. It is mainly used in the line of AC 50/60Hz, rated working voltage to 240V, and rated current to 63A as protection against overload and short-circuit. It can be used as infrequent on-and-off operation and changeover.

It complies with standard of IEC/EN60898-1 and IEC/EN60947-2.

MCB
intertek CE CB RoHS ISO9001

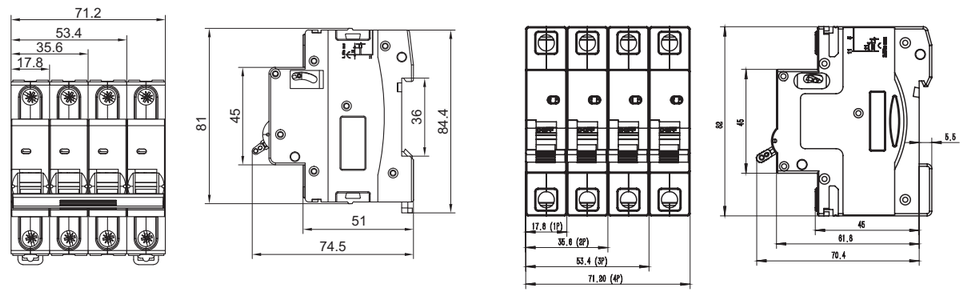
3. Basic specification and main parameters

Frame class	63A
Rated working voltage	240/415V
Rated frequency	50/60Hz
Rated working current	1,2,3,4,5,6,10,16,20,25,32,40,50,63A
Making and breaking capacity	10000A
Release type	B, C, D
Poles	1, 2, 3, 4P
Mechanical life	10000
Electric life	4000

4. The over-current tripping unit protection feature

Sequence NO.	Release	Test current I/In	Start state	Tripping time	Expected result
1	B、C、D	1.13In	Cold state	t≤1h	Not tripping
2	B、C、D	1.45In	Start right after the serial NO. 1 test	t<1h	Tripping
3	B、C、D	2.55In	Cold state	1s<t<60s(In≤32A) 1s<t<120s(In>32A)	Tripping
4	B C D	3In 5In 10In	Cold state	t≤0.1s	Not tripping
5	B C D	5In 10In 20In	Cold state	t<0.1s	Tripping

5. Dimensions(mm)



KORLEN®
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High performance MCB

15KA

KNB2-63S6

MINIATURE CIRCUIT BREAKER

1. Model and meaning

KN B 2 - 63 S6

- Rated current of frame
- Design code
- Mini circuit breaker
- Enterprise code

OF SD MX MN+MV

2. Application

KNB2-63 series Miniature Circuit Breaker is nice in appearance, reasonable in structure, sound in feature and high in breaking capacity. Installed with standard din rail, it is convenient and easy in usage. It is mainly used in the line of AC 50/60Hz, rated working voltage to 240V, and rated current to 63A as protection against overload and short-circuit. It can be used as infrequent on-and-off operation and changeover.

It complies with standard of IEC/EN60898-1 and IEC/EN60947-2.

MCB

intertek CE CB RoHS ISO9001

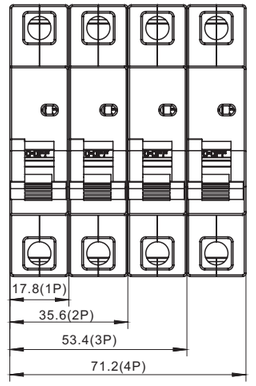
3. Basic specification and main parameters

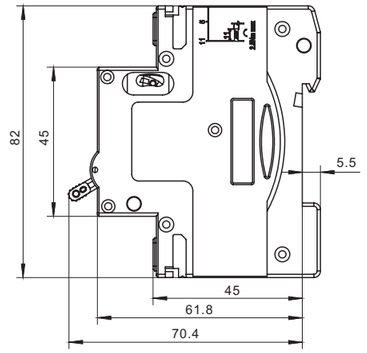
Frame class	63A
Rated working voltage	240/415V
Rated frequency	50/60Hz
Rated working current	1,2,3,4,5,6,10,16,20,25,32,40,50,63A
Making and breaking capacity	15000A
Release type	B, C, D
Poles	1, 2, 3, 4P
Mechanical life	10000
Electric life	4000

4. The over-current tripping unit protection feature

Sequence NO.	Release	Test current I/In	Start state	Tripping time	Expected result
1	B、C、D	1.13In	Cold state	t≤1h	Not tripping
2	B、C、D	1.45In	Start right after the serial NO. 1 test	t<1h	Tripping
3	B、C、D	2.55In	Cold state	1s<t<60s(In≤32A) 1s<t<120s(In>32A)	Tripping
4	B C D	3In 5In 10In	Cold state	t≤0.1s	Not tripping
5	B C D	5In 10In 20In	Cold state	t<0.1s	Tripping

5. Dimensions(mm)





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KNB2-63DC

MINIATURE CIRCUIT BREAKER

1. Model and meaning

KN B 2 - 63 DC

- 63 — Rated current of frame
- 2 — Design code
- B — Mini circuit breaker
- KN — Enterprise code

2. Application

KNB2-63 DC circuit-breakers are used in communication systems and PV DC systems.KNB2-63 series Miniature Circuit Breaker is nice in appearance, reasonable in structure, sound in feature and high in breaking capacity.Installed with standard din rail, it is convenient and easy in usage. It is rated working voltage to 250/500/1000V, and rated current to 63A as protection against short-circuit. It can be used as infrequent on-and-off operation and changeover.

It complies with standard of IEC/EN60947-2 .

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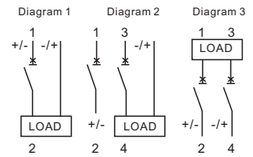
3. Basic specification and main parameters

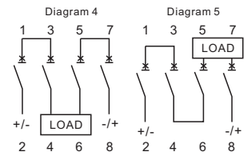
Frame class	63A
Rated working voltage	250/500/1000V
Rated working current	1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63A
Making and breaking capacity	6000A
Poles	1, 2, 4P
Mechanical life	20000
Electric life	1500

4. The over-current tripping unit protection feature

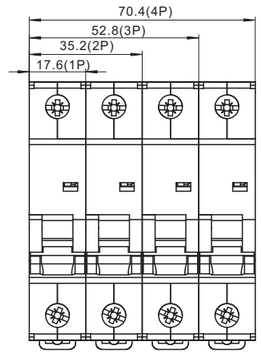
Sequence	Test current I/In	Start state	Tripping time	Expected result
1	1.13In	Cold state	t≤1h	Not tripping
2	1.45In	Start right after NO．1 test	t<1h	Tripping
3	2.55In	Cold state	t≤0.1s	Not tripping
4	5In	Cold state	t<0.1s	Tripping

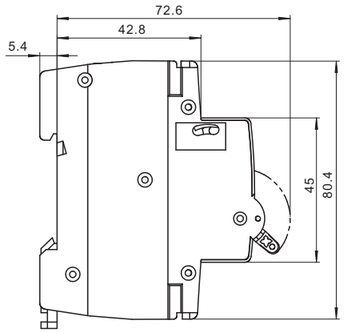
5. Operation principle





6. Dimensions(mm)





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KNB2-63S6Z

MINIATURE CIRCUIT BREAKER

1. Model and meaning

KN B 2 - 63 S6Z

- 63 — Rated current of frame
- 2 — Design code
- B — Mini circuit breaker
- KN — Enterprise code

2. Application

KNB2-63 S6Z circuit-breakers are used in communication systems and PV DC systems.KNB2-63 series Miniature Circuit Breaker is nice in appearance, reasonable in structure, sound in feature and high in breaking capacity.Installed with standard din rail, it is convenient and easy in usage. It is rated working voltage to 250/500/1000V, and rated current to 63A as protection against short-circuit. It can be used as infrequent on-and-off operation and changeover.

It complies with standard of IEC/EN60947-2 .

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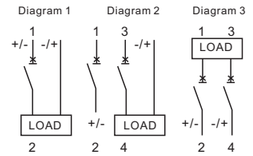
3. Basic specification and main parameters

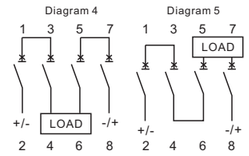
Frame class	63A
Rated working voltage	250/500/1000V
Rated working current	1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63A
Making and breaking capacity	15000A
Poles	1, 2, 4P
Mechanical life	20000
Electric life	1500

4. The over-current tripping unit protection feature

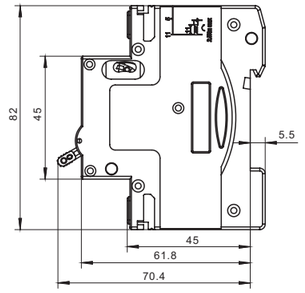
Sequence	Test current I/In	Start state	Tripping time	Expected result
1	1.13In	Cold state	t≤1h	Not tripping
2	1.45In	Start right after NO．1 test	t<1h	Tripping
3	2.55In	Cold state	t≤0.1s	Not tripping
4	5In	Cold state	t<0.1s	Tripping

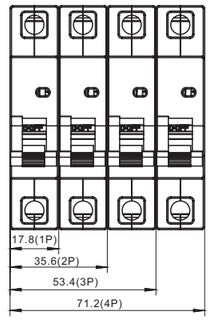
5. Operation principle





6. Dimensions(mm)





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KNB6-63

HIGH-BREAKING MINIATURE CIRCUIT BREAKER

1. Model and meaning

KN B 6 - 63

- Rated current of frame
- Design code
- Mini circuit breaker
- Enterprise code

2. Application

KNB6-63 High-breaking Miniature Circuit Breaker is nice in appearance, reasonable in structure, sound in feature and high in breaking capacity. Installed with standard din rail, it is convenient and easy in usage. It is mainly used in the line of AC 50/60Hz, rated working voltage to 415V, and rated current to 63A as protection against overload and short-circuit. It can be used as infrequent on-and-off operation and changeover.

It complies with standard of IEC/EN60898-1 and IEC/EN60947-2.

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3. Basic specification and main parameters

Frame class	63A
Rated working voltage	240/415V
Rated frequency	50/60Hz
Rated working current	6, 10, 16, 20, 25, 32, 40, 50, 63A
Making and breaking capacity	10000A
Release type	B, C, D
Poles	1, 2, 3, 4P
Mechanical life	10000
Electric life	4000

4. The over-current tripping unit protection feature

Sequence NO.	Release	Test current I/In	Start state	Tripping time	Expected result
1	B、C、D	1.13In	Cold state	t≤1h	Not tripping
2	B、C、D	1.45In	Start right after the serial NO. 1 test	t<1h	Tripping
3	B、C、D	2.55In	Cold state	1s<t<60s(In≤32A) 1s<t<120s(In>32A)	Tripping
4	B C D	3In 5In 10In	Cold state	t≤0.1s	Not tripping
5	B C D	5In 10In 20In	Cold state	t<0.1s	Tripping

5. Dimensions(mm)