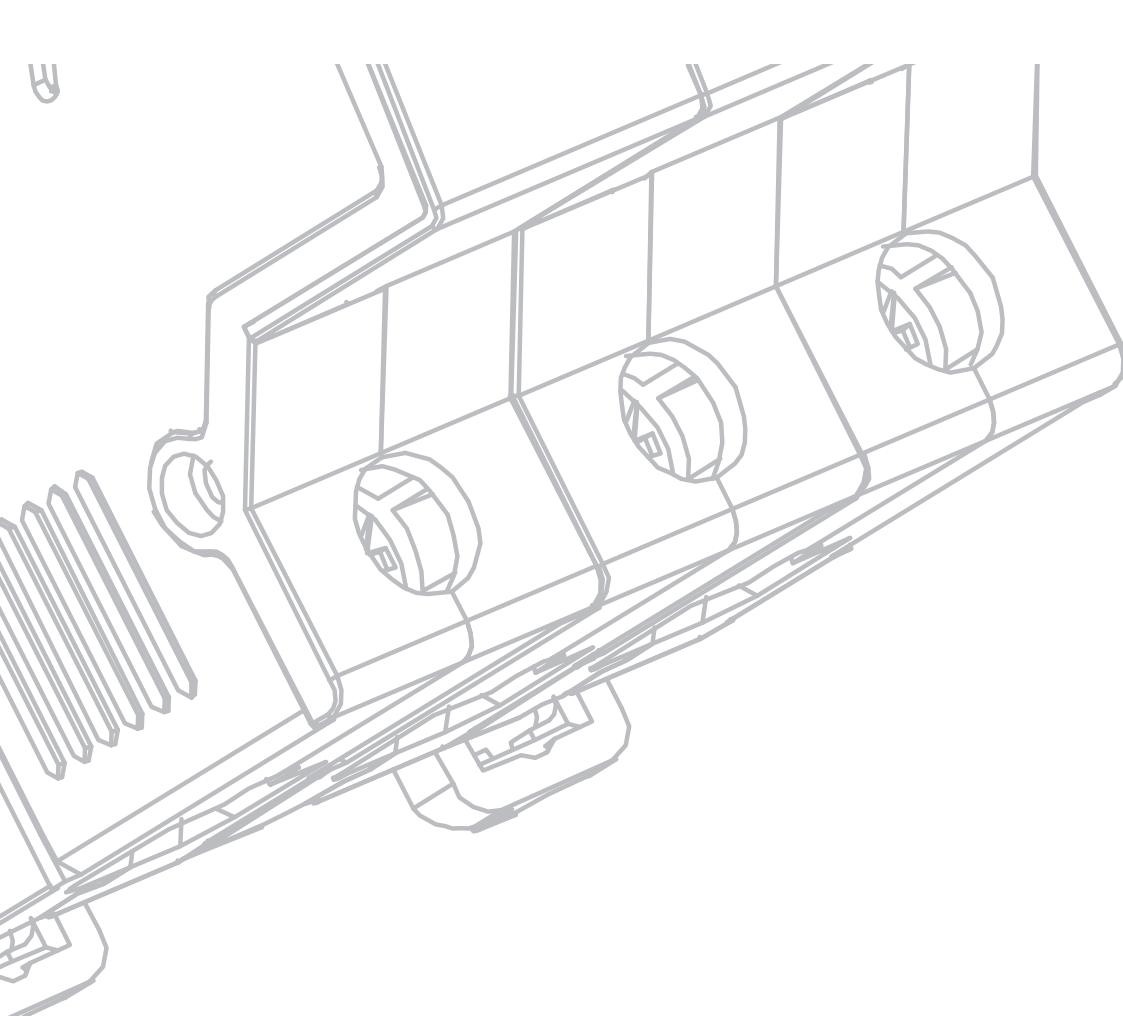
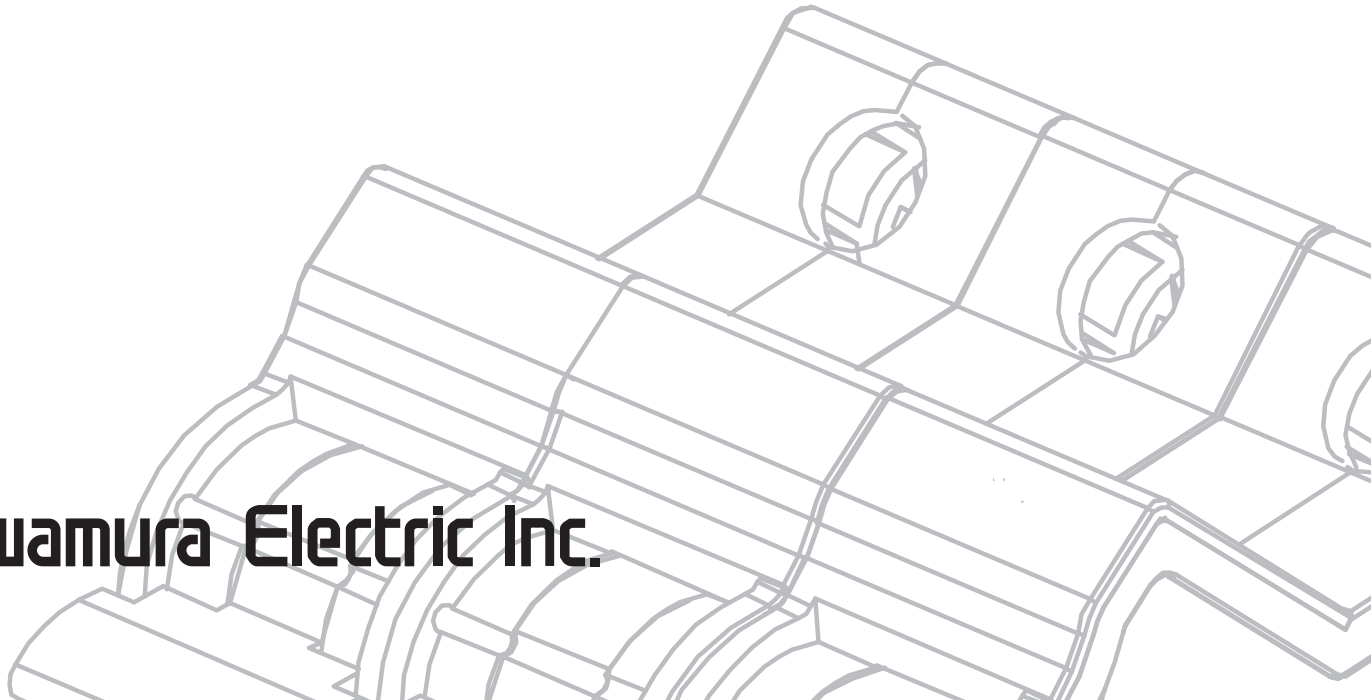




DIN Rail Modular Devices



Kawamura Electric Inc.

KWB9-63M/H Series

Miniature Circuit Breaker

Standard	IEC/EN 60898-1
Breaking capacity(kA)	6,10
Protection	Against overload and short circuit
Rated current(A) In	1,2,4,6,10,16,20,25,32,40,50,63
Rated voltage(V)	1P AC 230/400,240/415
	2P,3P,4P AC 400/415
Rated impulse withstand voltage Uimp(kV)	4
Rated insulation voltage Ui(V)	500
Energy limiting class	3
Ambient temperature (°C)	-25~+40,Max.95%humidity
Thermal operating limit	1.13 xIn No tripping within an hour
	1.45 xIn Tripping within an hour
Magnertic operating	B:(3-5)xIn,C:(5-10)xIn,D:(10-20)xIn
Number of poles	1P,2P,3P and 4P
Type of trip	Thermal/ magnetic release
Terminal capacity	16mm² flexible or 25mm² rigid
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	18mm per pole
Certification	  



KWB9-63H-1P



KWB9-63H-2P



KWB9-63H-3P



KWB9-63H-4P

KWB9-63M Series

Miniature Circuit Breaker

	Rated current(A)	B curve	C curve	D curve	Packing unit
 <p>KWB9-63M-1P</p>	1	KWB9-63M/1-B1	KWB9-63M/1-C1	KWB9-63M/1-D1	12
	2	KWB9-63M/1-B2	KWB9-63M/1-C2	KWB9-63M/1-D2	
	4	KWB9-63M/1-B4	KWB9-63M/1-C4	KWB9-63M/1-D4	
	6	KWB9-63M/1-B6	KWB9-63M/1-C6	KWB9-63M/1-D6	
	10	KWB9-63M/1-B10	KWB9-63M/1-C10	KWB9-63M/1-D10	
	16	KWB9-63M/1-B16	KWB9-63M/1-C16	KWB9-63M/1-D16	
	20	KWB9-63M/1-B20	KWB9-63M/1-C20	KWB9-63M/1-D20	
	25	KWB9-63M/1-B25	KWB9-63M/1-C25	KWB9-63M/1-D25	
	32	KWB9-63M/1-B32	KWB9-63M/1-C32	KWB9-63M/1-D32	
	40	KWB9-63M/1-B40	KWB9-63M/1-C40	KWB9-63M/1-D40	
	50	KWB9-63M/1-B50	KWB9-63M/1-C50	KWB9-63M/1-D50	
	63	KWB9-63M/1-B63	KWB9-63M/1-C63	KWB9-63M/1-D63	
 <p>KWB9-63M-2P</p>	1	KWB9-63M/2-B1	KWB9-63M/2-C1	KWB9-63M/2-D1	6
	2	KWB9-63M/2-B2	KWB9-63M/2-C2	KWB9-63M/2-D2	
	4	KWB9-63M/2-B4	KWB9-63M/2-C4	KWB9-63M/2-D4	
	6	KWB9-63M/2-B6	KWB9-63M/2-C6	KWB9-63M/2-D6	
	10	KWB9-63M/2-B10	KWB9-63M/2-C10	KWB9-63M/2-D10	
	16	KWB9-63M/2-B16	KWB9-63M/2-C16	KWB9-63M/2-D16	
	20	KWB9-63M/2-B20	KWB9-63M/2-C20	KWB9-63M/2-D20	
	25	KWB9-63M/2-B25	KWB9-63M/2-C25	KWB9-63M/2-D25	
	32	KWB9-63M/2-B32	KWB9-63M/2-C32	KWB9-63M/2-D32	
	40	KWB9-63M/2-B40	KWB9-63M/2-C40	KWB9-63M/2-D40	
	50	KWB9-63M/2-B50	KWB9-63M/2-C50	KWB9-63M/2-D50	
	63	KWB9-63M/2-B63	KWB9-63M/2-C63	KWB9-63M/2-D63	

KWB9-63M Series

Miniature Circuit Breaker

	Rated current(A)	B curve	C curve	D curve	Packing unit
 KWB9-63M-3P	1	KWB9-63M/3-B1	KWB9-63M/3-C1	KWB9-63M/1-D1	4
	2	KWB9-63M/3-B2	KWB9-63M/3-C2	KWB9-63M/1-D2	
	4	KWB9-63M/3-B4	KWB9-63M/3-C4	KWB9-63M/1-D4	
	6	KWB9-63M/3-B6	KWB9-63M/3-C6	KWB9-63M/1-D6	
	10	KWB9-63M/3-B10	KWB9-63M/3-C10	KWB9-63M/1-D10	
	16	KWB9-63M/3-B16	KWB9-63M/3-C16	KWB9-63M/1-D16	
	20	KWB9-63M/3-B20	KWB9-63M/3-C20	KWB9-63M/1-D20	
	25	KWB9-63M/3-B25	KWB9-63M/3-C25	KWB9-63M/1-D25	
	32	KWB9-63M/3-B32	KWB9-63M/3-C32	KWB9-63M/1-D32	
	40	KWB9-63M/3-B40	KWB9-63M/3-C40	KWB9-63M/1-D40	
	50	KWB9-63M/3-B50	KWB9-63M/3-C50	KWB9-63M/1-D50	
	63	KWB9-63M/3-B63	KWB9-63M/3-C63	KWB9-63M/1-D63	
 KWB9-63M-4P	1	KWB9-63M/4-B1	KWB9-63M/4-C1	KWB9-63M/4-D1	3
	2	KWB9-63M/4-B2	KWB9-63M/4-C2	KWB9-63M/4-D2	
	4	KWB9-63M/4-B4	KWB9-63M/4-C4	KWB9-63M/4-D4	
	6	KWB9-63M/4-B6	KWB9-63M/4-C6	KWB9-63M/4-D6	
	10	KWB9-63M/4-B10	KWB9-63M/4-C10	KWB9-63M/4-D10	
	16	KWB9-63M/4-B16	KWB9-63M/4-C16	KWB9-63M/4-D16	
	20	KWB9-63M/4-B20	KWB9-63M/4-C20	KWB9-63M/4-D20	
	25	KWB9-63M/4-B25	KWB9-63M/4-C25	KWB9-63M/4-D25	
	32	KWB9-63M/4-B32	KWB9-63M/4-C32	KWB9-63M/4-D32	
	40	KWB9-63M/4-B40	KWB9-63M/4-C40	KWB9-63M/4-D40	
	50	KWB9-63M/4-B50	KWB9-63M/4-C50	KWB9-63M/4-D50	
	63	KWB9-63M/4-B63	KWB9-63M/4-C63	KWB9-63M/4-D63	

KWB9-63H Series

Miniature Circuit Breaker

	Rated current(A)	B curve	C curve	D curve	Packing unit
 KWB9-63H-1P	1	KWB9-63H/1-B1	KWB9-63H/1-C1	KWB9-63H/1-D1	12
	2	KWB9-63H/1-B2	KWB9-63H/1-C2	KWB9-63H/1-D2	
	4	KWB9-63H/1-B4	KWB9-63H/1-C4	KWB9-63H/1-D4	
	6	KWB9-63H/1-B6	KWB9-63H/1-C6	KWB9-63H/1-D6	
	10	KWB9-63H/1-B10	KWB9-63H/1-C10	KWB9-63H/1-D10	
	16	KWB9-63H/1-B16	KWB9-63H/1-C16	KWB9-63H/1-D16	
	20	KWB9-63H/1-B20	KWB9-63H/1-C20	KWB9-63H/1-D20	
	25	KWB9-63H/1-B25	KWB9-63H/1-C25	KWB9-63H/1-D25	
	32	KWB9-63H/1-B32	KWB9-63H/1-C32	KWB9-63H/1-D32	
	40	KWB9-63H/1-B40	KWB9-63H/1-C40	KWB9-63H/1-D40	
	50	KWB9-63H/1-B50	KWB9-63H/1-C50	KWB9-63H/1-D50	
	63	KWB9-63H/1-B63	KWB9-63H/1-C63	KWB9-63H/1-D63	
 KWB9-63H-2P	1	KWB9-63H/2-B1	KWB9-63H/2-C1	KWB9-63H/2-D1	6
	2	KWB9-63H/2-B2	KWB9-63H/2-C2	KWB9-63H/2-D2	
	4	KWB9-63H/2-B4	KWB9-63H/2-C4	KWB9-63H/2-D4	
	6	KWB9-63H/2-B6	KWB9-63H/2-C6	KWB9-63H/2-D6	
	10	KWB9-63H/2-B10	KWB9-63H/2-C10	KWB9-63H/2-D10	
	16	KWB9-63H/2-B16	KWB9-63H/2-C16	KWB9-63H/2-D16	
	20	KWB9-63H/2-B20	KWB9-63H/2-C20	KWB9-63H/2-D20	
	25	KWB9-63H/2-B25	KWB9-63H/2-C25	KWB9-63H/2-D25	
	32	KWB9-63H/2-B32	KWB9-63H/2-C32	KWB9-63H/2-D32	
	40	KWB9-63H/2-B40	KWB9-63H/2-C40	KWB9-63H/2-D40	
	50	KWB9-63H/2-B50	KWB9-63H/2-C50	KWB9-63H/2-D50	
	63	KWB9-63H/2-B63	KWB9-63H/2-C63	KWB9-63H/2-D63	

KWB9-63H Series

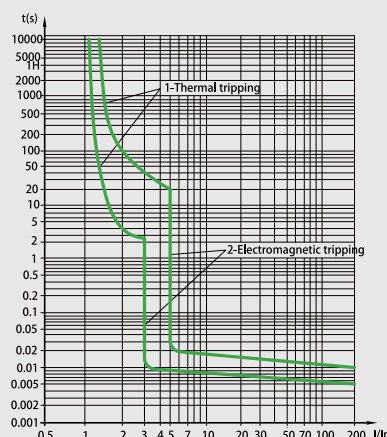
Miniature Circuit Breaker

	Rated current(A)	B curve	C curve	D curve	Packing unit
 KWB9-63H-3P	1	KWB9-63H/3-B1	KWB9-63H/3-C1	KWB9-63H/1-D1	4
	2	KWB9-63H/3-B2	KWB9-63H/3-C2	KWB9-63H/1-D2	
	4	KWB9-63H/3-B4	KWB9-63H/3-C4	KWB9-63H/1-D4	
	6	KWB9-63H/3-B6	KWB9-63H/3-C6	KWB9-63H/1-D6	
	10	KWB9-63H/3-B10	KWB9-63H/3-C10	KWB9-63H/1-D10	
	16	KWB9-63H/3-B16	KWB9-63H/3-C16	KWB9-63H/1-D16	
	20	KWB9-63H/3-B20	KWB9-63H/3-C20	KWB9-63H/1-D20	
	25	KWB9-63H/3-B25	KWB9-63H/3-C25	KWB9-63H/1-D25	
	32	KWB9-63H/3-B32	KWB9-63H/3-C32	KWB9-63H/1-D32	
	40	KWB9-63H/3-B40	KWB9-63H/3-C40	KWB9-63H/1-D40	
	50	KWB9-63H/3-B50	KWB9-63H/3-C50	KWB9-63H/1-D50	
	63	KWB9-63H/3-B63	KWB9-63H/3-C63	KWB9-63H/1-D63	
 KWB9-63H-4P	1	KWB9-63H/4-B1	KWB9-63H/4-C1	KWB9-63H/4-D1	3
	2	KWB9-63H/4-B2	KWB9-63H/4-C2	KWB9-63H/4-D2	
	4	KWB9-63H/4-B4	KWB9-63H/4-C4	KWB9-63H/4-D4	
	6	KWB9-63H/4-B6	KWB9-63H/4-C6	KWB9-63H/4-D6	
	10	KWB9-63H/4-B10	KWB9-63H/4-C10	KWB9-63H/4-D10	
	16	KWB9-63H/4-B16	KWB9-63H/4-C16	KWB9-63H/4-D16	
	20	KWB9-63H/4-B20	KWB9-63H/4-C20	KWB9-63H/4-D20	
	25	KWB9-63H/4-B25	KWB9-63H/4-C25	KWB9-63H/4-D25	
	32	KWB9-63H/4-B32	KWB9-63H/4-C32	KWB9-63H/4-D32	
	40	KWB9-63H/4-B40	KWB9-63H/4-C40	KWB9-63H/4-D40	
	50	KWB9-63H/4-B50	KWB9-63H/4-C50	KWB9-63H/4-D50	
	63	KWB9-63H/4-B63	KWB9-63H/4-C63	KWB9-63H/4-D63	

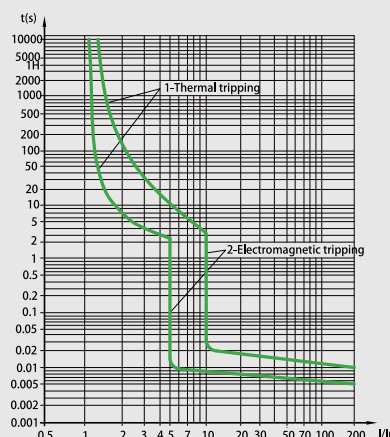
KWB9-63M/H Series

Miniature Circuit Breaker

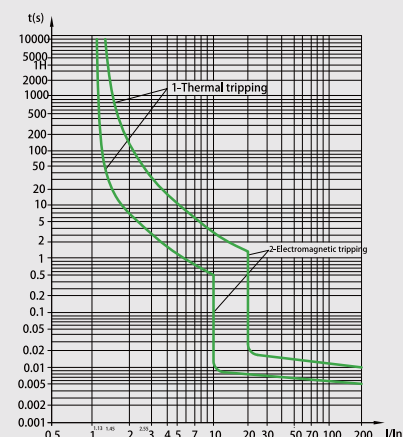
Curves



B type



C type



D type

Overcurrent protecting characteristics

NO.	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks	Reference Temperature
1	1-63	cold state	$1.13I_n$	$t \geq 1h$	No-trip		30°C+5°C
2	1-63	upon the previous test	$1.45I_n$	$t < 1h$	trip	Setting current up to specified value steadily in 5s	
3	$I_n \leq 32$ $I_n > 32$	cold state	$2.55I_n$	$1s < t < 60s$ $1s < t < 120s$	trip		
4	1-63	cold state	$3I_n$ $5I_n$ $5I_n$ $10I_n$ $10I_n$ $20I_n$	$t \geq 0.1s$ $t < 0.1s$ $t \geq 0.1s$ $t < 0.1s$ $t \geq 0.1s$ $t < 0.1s$	No-trip trip No-trip trip No-trip trip	B type B type C type C type D type D type	

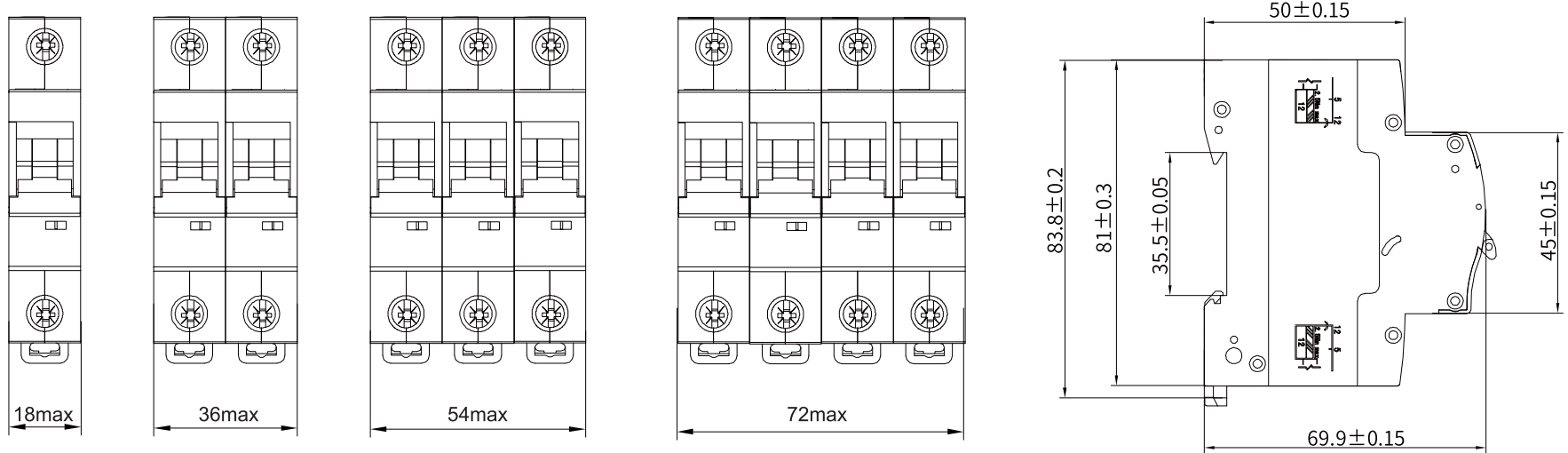
Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	4000	240/h	1-32
		120/h	40-63
Mechanical endurance	10000	240/h	1-63

Features

Much higher short circuit breaking capacity, Dual-connection convenient for both standard busbar and conductor connection. Improved safety of operators offered by special design from terminals. Much longer service life thanks to energy-storage operating mechanism. Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties. Higher current-limiting capacity ensuring a cost-effective range of products. Different handle color for different rated current with contactor condition indicator.

Overall and mounting dimensions



KWB9-63M/KWB9-63H

KWB9–125H/M/L Series

Miniature Circuit Breaker

Standard	IEC/EN 60898-1	IEC/EN 60947-2
Thermal operating limit	(1.13–1.45)×In	(1.05–1.30)×In
Magnetic operating	B:(3–5)×In;C:(5–10)×In;D:(10–20)×In	li=8In;li=10In;li=12In
Protection	Against overload and short circuit	
Rated current(A) In	63,80,100,125	
Rated voltage(V)	230/400,240/415VAC for 1P ; 400/415VAC for 2P,3P,4P	
Rated insulation voltage Ui(V)	500	
Number of poles	1P,2P,3P,4P	
Type of trip	Thermal/ magnetic release	
Terminal capacity	Flexible cables: 1.5 to 35mm ² Rigid cables: 1 to 50mm ²	
Installation	Mounting on 35mm DIN rail	
Width	27mm per pole	
Certification	  	  



KWB9–125H/M/L-1P



KWB9–125H/M/L-2P



KWB9–125H/M/L-3P



KWB9–125H/M/L-4P

KWB9-125H/M/L Series

Miniature Circuit Breaker

	Rated current(A)	IEC/EN 60898-1			Packing unit
		B curve	C curve	D curve	
 KWB9-125H/M/L-1P	63	KWB9-125H/M/L/1-B63	KWB9-125H/M/L/1-C63	KWB9-125H/M/L/1-D63	12
	80	KWB9-125H/M/L/1-B80	KWB9-125H/M/L/1-C80	KWB9-125H/M/L/1-D80	
	100	KWB9-125H/M/L/1-B100	KWB9-125H/M/L/1-C100	KWB9-125H/M/L/1-D100	
	125	KWB9-125H/M/L/1-B125	KWB9-125H/M/L/1-C125	KWB9-125H/M/L/1-D125	
 KWB9-125H/M/L-2P	63	KWB9-125H/M/L/2-B63	KWB9-125H/M/L/2-C63	KWB9-125H/M/L/2-D63	6
	80	KWB9-125H/M/L/2-B80	KWB9-125H/M/L/2-C80	KWB9-125H/M/L/2-D80	
	100	KWB9-125H/M/L/2-B100	KWB9-125H/M/L/2-C100	KWB9-125H/M/L/2-D100	
	125	KWB9-125H/M/L/2-B125	KWB9-125H/M/L/2-C125	KWB9-125H/M/L/2-D125	
 KWB9-125H/M/L-3P	63	KWB9-125H/M/L/3-B63	KWB9-125H/M/L/3-C63	KWB9-125H/M/L/3-D63	4
	80	KWB9-125H/M/L/3-B80	KWB9-125H/M/L/3-C80	KWB9-125H/M/L/3-D80	
	100	KWB9-125H/M/L/3-B100	KWB9-125H/M/L/3-C100	KWB9-125H/M/L/3-D100	
	125	KWB9-125H/M/L/3-B125	KWB9-125H/M/L/3-C125	KWB9-125H/M/L/3-D125	
 KWB9-125H/M/L-4P	63	KWB9-125H/M/L/4-B63	KWB9-125H/M/L/4-C63	KWB9-125H/M/L/4-D63	3
	80	KWB9-125H/M/L/4-B80	KWB9-125H/M/L/4-C80	KWB9-125H/M/L/4-D80	
	100	KWB9-125H/M/L/4-B100	KWB9-125H/M/L/4-C100	KWB9-125H/M/L/4-D100	
	125	KWB9-125H/M/L/4-B125	KWB9-125H/M/L/4-C125	KWB9-125H/M/L/4-D125	

KWB9-125H/M/L Series

Miniature Circuit Breaker

	Rated current(A)	IEC/EN 60947-2			Packing unit
		li=8In	li=10In	li=12In	
 KWB9-125H/M/L-1P	63	KWB9-125H/M/L/1-63li8	KWB9-125H/M/L/1-63li10	KWB9-125H/M/L/1-63li12	12
	80	KWB9-125H/M/L/1-80li8	KWB9-125H/M/L/1-80li10	KWB9-125H/M/L/1-80li12	
	100	KWB9-125H/M/L/1-100li8	KWB9-125H/M/L/1-100li10	KWB9-125H/M/L/1-100li12	
	125	KWB9-125H/M/L/1-125li8	KWB9-125H/M/L/1-125li10	KWB9-125H/M/L/1-125li12	
 KWB9-125H/M/L-2P	63	KWB9-125H/M/L/2-63li8	KWB9-125H/M/L/2-63li10	KWB9-125H/M/L/2-63li12	6
	80	KWB9-125H/M/L/2-80li8	KWB9-125H/M/L/2-80li10	KWB9-125H/M/L/2-80li12	
	100	KWB9-125H/M/L/2-100li8	KWB9-125H/M/L/2-100li10	KWB9-125H/M/L/2-100li12	
	125	KWB9-125H/M/L/2-125li8	KWB9-125H/M/L/2-125li10	KWB9-125H/M/L/2-125li12	
 KWB9-125H/M/L-3P	63	KWB9-125H/M/L/3-63li8	KWB9-125H/M/L/3-63li10	KWB9-125H/M/L/3-63li12	4
	80	KWB9-125H/M/L/3-80li8	KWB9-125H/M/L/3-80li10	KWB9-125H/M/L/3-80li12	
	100	KWB9-125H/M/L/3-100li8	KWB9-125H/M/L/3-100li10	KWB9-125H/M/L/3-100li12	
	125	KWB9-125H/M/L/3-125li8	KWB9-125H/M/L/3-125li10	KWB9-125H/M/L/3-125li12	
 KWB9-125H/M/L-4P	63	KWB9-125H/M/L/4-63li8	KWB9-125H/M/L/4-63li10	KWB9-125H/M/L/4-63li12	3
	80	KWB9-125H/M/L/4-80li8	KWB9-125H/M/L/4-80li10	KWB9-125H/M/L/4-80li12	
	100	KWB9-125H/M/L/4-100li8	KWB9-125H/M/L/4-100li10	KWB9-125H/M/L/4-100li12	
	125	KWB9-125H/M/L/4-125li8	KWB9-125H/M/L/4-125li10	KWB9-125H/M/L/4-125li12	

KWB9–125H/M/L Series

Miniature Circuit Breaker

■ Overcurrent protecting characteristics

Standard	IEC/EN 60947-2				
Short-time delay	Overload tripping characteristic				
	Test current	Tripping characteristic	Test requirements		
	2.55I _n		1s < t < 120s		
Long-time delay	Inverse time overload protection characteristic (reference ambient temperature +30°C)				
	Test current designation	Current setting multiplier	Conventional time		Initial condition
			I _n ≤63A	I _n > 63A	
	Conventional No-tripping current	1.05	≥1h	≥2h	Cold state
	Conventional tripping current	1.3	< 1h	< 2h	Immediately following the 1.05I _n test

2I_n overload protection characteristic (reference ambient temperature +30°C) shall meet the requirements in the following table

Time setting and tolerance: 2I_n tripping time ≤ 10 minutes

Standard	IEC/EN 60898-1				
Short-time delay	Overload tripping characteristic				
	Test current	Tripping characteristic	Test requirements		
	2.55I _n		1s < t < 120s		
Long-time delay	Inverse time overload protection characteristic (reference ambient temperature +30°C)				
	Test current designation	Current setting multiplier	Conventional time		Initial condition
			I _n ≤63A	I _n > 63A	
	Conventional No-tripping current	1.13	≥1h	≥2h	Cold state
	Conventional tripping current	1.45	< 1h	< 2h	Immediately following the 1.13I _n test

■ Endurance(operations)

IEC/EN 60898-1	Category	Operations	IEC/EN 60947-2	Category	Operations
	Electrical endurance	5000		Electrical endurance	3000
	Mechanical endurance	10000		Mechanical endurance	8500

KWB9-125H/M/L Series

Miniature Circuit Breaker

Curves

IEC/EN 60947-2	Ii=8In	6.4In	≥0.2sNo-trip	IEC/EN 60898-1	B	3In	≥0.1sNo-trip
		9.6In	< 0.2sTrip			5In	< 0.1sTrip
	Ii=10In	8In	≥0.2sNo-trip		C	5In	≥0.1sNo-trip
		12In	< 0.2sTrip			10In	< 0.1sTrip
	Ii=12In	9.6In	≥0.2sNo-trip		D	10In	≥0.1sNo-trip
		14.4In	< 0.2sTrip			20In	< 0.1sTrip

Breaking capacity

Standard	IEC/EN 60898-1			Standard	IEC/EN 60947-2		
Breaking capacity level	H	M	L	Breaking capacity level	H	M	L
Icn (kA)	15	10	6	Icu (kA)	15	10	6
Ics (kA)	10	7.5	6	Ics (kA)	7.5	7.5	6

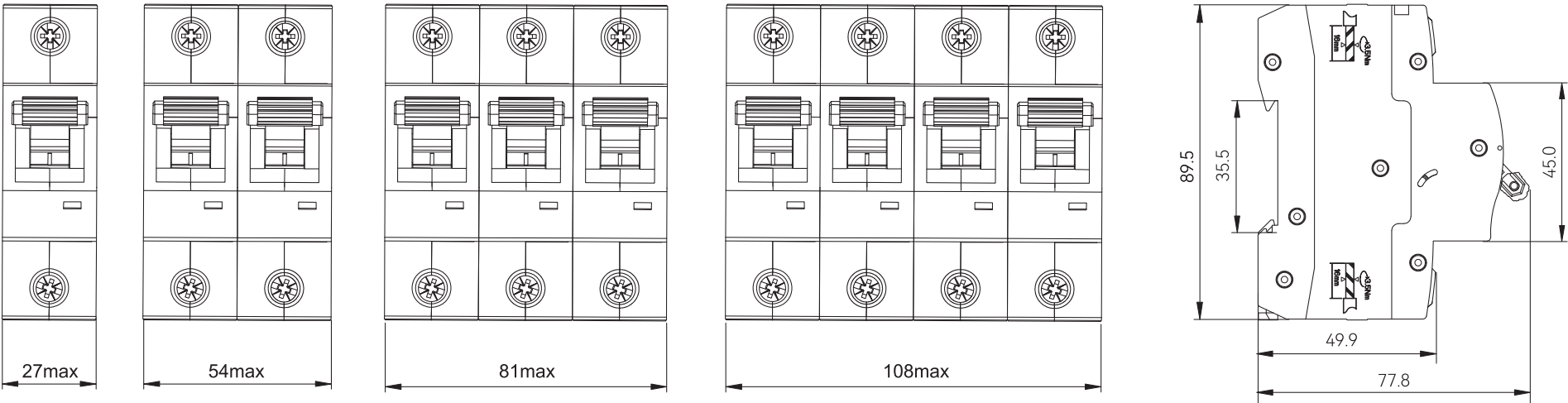
Wiring (The suitable conductors should be used for connection, see table below for relative parameters)

Rated current In(A)	Nominal cross section area s(mm²)	Tightening torque (N.m)
63	16	3.5
80	25	
100	35	
125	50	

Features

- Service life of product has been greatly enhanced through special designed tripping mechanism.
- Long-time and reliable operation.
- Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties.
- Compact and modularized design.
- Convenient mounting.
- Full sets of additional components and full sets of accessories.

Overall and mounting dimensions



KWB9-125H/M/L

KWB9–DPN Series

“Phase+Neutral” Circuit Breaker

Standard	IEC/EN 60898-1
Breaking capacity(kA)	4.5,6
Protection	Against Overload and short circuit
Rated insulation voltage Ui(V)	500
Rated impulse withstand voltage Uimp(kV)	4
Rated current(A) In	6,10,13,16,20,25,32
Rated voltage(V)	AC 240
Characteristic	B,C Curve
Number of poles	1P+N
Type of trip	Thermal/magnetic release
Terminal capacity	1–10mm ² wire
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	18mm per pole
Electrical endurance	4000
Mechanical endurance	10000
Altitude	≤2000m
Certification	  



KWB9-DPN4.5K



KWB9-DPN6K

KWB9-DPN Series

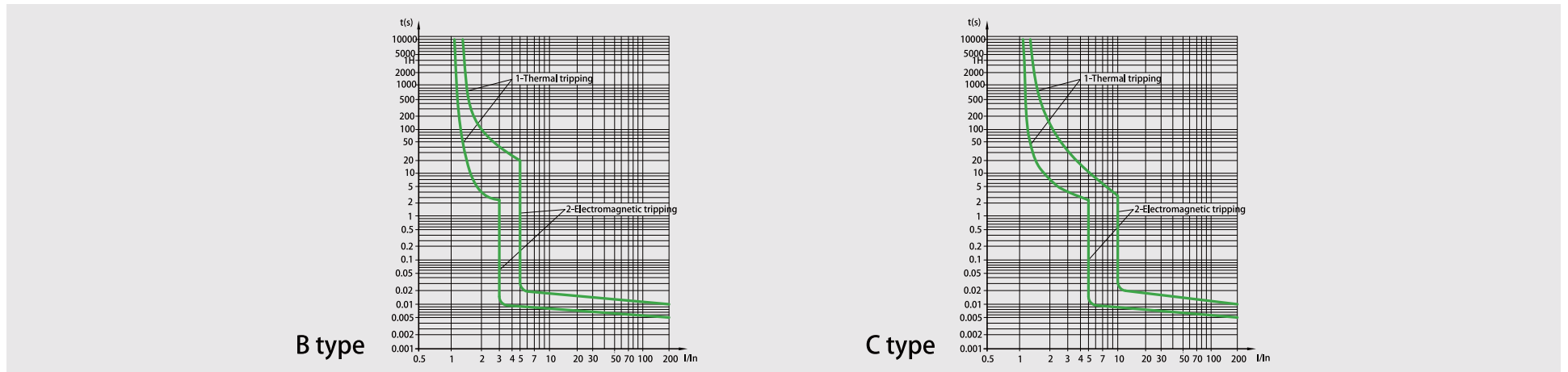
“Phase+Neutral” Circuit Breaker

	Rated current(A)	B curve	C curve	Packing unit
 KWB9-DPN4.5K	6	KWB9-DPN4.5K-B6	KWB9-DPN4.5K-C6	12
	10	KWB9-DPN4.5K-B10	KWB9-DPN4.5K-C10	
	13	KWB9-DPN4.5K-B13	KWB9-DPN4.5K-C13	
	16	KWB9-DPN4.5K-B16	KWB9-DPN4.5K-C16	
	20	KWB9-DPN4.5K-B20	KWB9-DPN4.5K-C20	
	25	KWB9-DPN4.5K-B25	KWB9-DPN4.5K-C25	
	32	KWB9-DPN4.5K-B32	KWB9-DPN4.5K-C32	
 KWB9-DPN6K	6	KWB9-DPN6K-B6	KWB9-DPN6K-C6	12
	10	KWB9-DPN6K-B10	KWB9-DPN6K-C10	
	13	KWB9-DPN6K-B13	KWB9-DPN6K-C13	
	16	KWB9-DPN6K-B16	KWB9-DPN6K-C16	
	20	KWB9-DPN6K-B20	KWB9-DPN6K-C20	
	25	KWB9-DPN6K-B25	KWB9-DPN6K-C25	
	32	KWB9-DPN6K-B32	KWB9-DPN6K-C32	

KWB9-DPN Series

“Phase+Neutral” Circuit Breaker

Curves



Wiring (The suitable conductors should be used for connection, see table below for relative parameters)

Rated current I_n (A)	Nominal cross sectional area(mm ²)	Tightening torque (N.m)
6	1	1.2
10-13	1.5	
16-20	2.5	
25	4	
32	6	

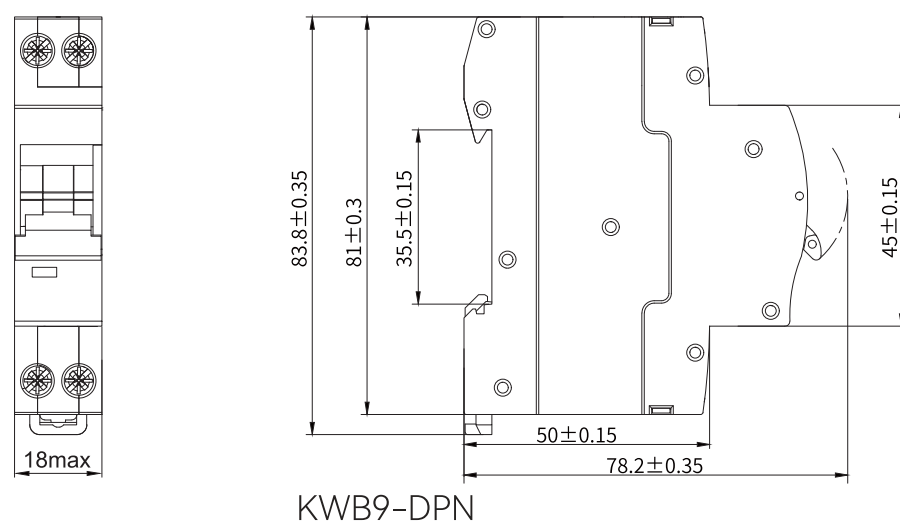
Overcurrent protecting characteristics

NO.	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks	Reference Temperature
1	6-32	Cold state	$1.13I_n$	$t \geq 1h$	No-trip		30°C±5°C
2	6-32	Upon the previous test	$1.45I_n$	$t < 1h$	Trip	Setting current up to specified value steadily in 5s	
3	$I_n \leq 32$	Cold state	$2.55I_n$	$1s < t < 60s$	Trip		
4	6-32	Cold state	$3I_n$	$t \geq 0.1s$	No-trip	B type	
			$5I_n$	$t < 0.1s$	Trip	B type	
			$5I_n$	$t \geq 0.1s$	No-trip	C type	
			$10I_n$	$t < 0.1s$	Trip	C type	

Features

Compact design and cost-effective;
Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties; Potential electric shock is avoided thanks to neutral-line being directly connected to the product;
Convenient and time-saving mounting.

Overall and mounting dimensions



KWB9-63M-DC Series

Miniature Circuit Breaker

Standard	IEC/EN 60947-2
Breaking capacity(kA)	6
Protection	Against overload and short circuit
Rated current(A) In	1,2,4,6,10,16,20,25,32,40,50,63
Rated voltage(V)	1P DC 120;2P DC 240
Operational volatge(V)	Min.:12
Ambient temperature (°C)	-25~+40,Max.95%humidity
Thermal operating limit	1.05 xIn No tripping within an hour
	1.3 xIn Tripping within an hour
Magnertic operating	(8-12)xIn
Number of poles	1P,2P
Type of trip	Thermal/ magnetic release
Terminal capacity	16mm ² flexible or 25mm ² rigid
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	18mm per pole
Certification	  



KWB9-63M-DC-1P



KWB9-63M-DC-2P

KWB9-63M-DC Series

Miniature Circuit Breaker

	Rated current(A)	DC type	Packing unit
 KWB9-63M-DC-1P	1	KWB9-63M/1-DC1	12
	2	KWB9-63M/1-DC2	
	4	KWB9-63M/1-DC4	
	6	KWB9-63M/1-DC6	
	10	KWB9-63M/1-DC10	
	16	KWB9-63M/1-DC16	
	20	KWB9-63M/1-DC20	
	25	KWB9-63M/1-DC25	
	32	KWB9-63M/1-DC32	
	40	KWB9-63M/1-DC40	
	50	KWB9-63M/1-DC50	
	63	KWB9-63M/1-DC63	
 KWB9-63M-DC-2P	1	KWB9-63M/2-DC1	6
	2	KWB9-63M/2-DC2	
	4	KWB9-63M/2-DC4	
	6	KWB9-63M/2-DC6	
	10	KWB9-63M/2-DC10	
	16	KWB9-63M/2-DC16	
	20	KWB9-63M/2-DC20	
	25	KWB9-63M/2-DC25	
	32	KWB9-63M/2-DC32	
	40	KWB9-63M/2-DC40	
	50	KWB9-63M/2-DC50	
	63	KWB9-63M/2-DC63	

KWB9–63M–DC Series

Miniature Circuit Breaker

Overcurrent protecting characteristics

NO.	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks	Reference Temperature
1	1-63	Cold state	1.05In	t≥1h	No-trip		30°C±2°C
2	1-63	Upon the previous test	1.30In	t<1h	Trip	Setting current up to specified value steadily in 5s	
3	In≤32 In>32	Cold state	2.55In	1s<t<60s 1s<t<120s	Trip		
	1-63	Cold state	8In 12In	t≥0.2s t<0.2s	No-trip trip	Ii=10In	

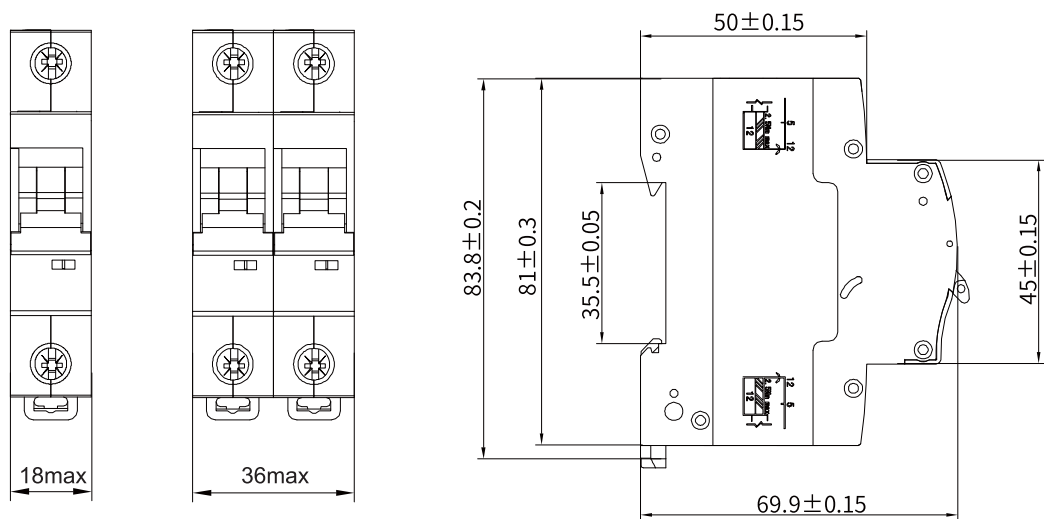
Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	1500	240/h	1-32
		120/h	40-63
Mechanical endurance	8500	240/h	1-63

Features

Much higher short circuit breaking capacity, Dual-connection convenient for both standard busbar and conductor connection. Improved safety of operators offered by special design from terminals. Much longer service life thanks to energy-storage operating mechanism.Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties.Higher current-limiting capacity ensuring a cost-effective range of products. Different handle color for different rated current with contactor condition indicator.

Overall and mounting dimensions



KWB9-63M-DC

KWI-R Series		Isolating Switch
Standard	IEC/EN 60947-3	
Number of poles	1P,2P,3P,4P	
Rated current(A) In	16,25,32,40,63,80,100,125	
Rated voltage(V)	1P AC 240 2,3,4P AC 415	
Utilization category	AC-22A	
Rated short-time withstand current Icw(Ie)	12Ie/1s	
Rated short-circuit making capacity Icm(Ie)	20Ie	
Rated making & breaking capacity	3Ie,1.05Ue,COSΦ=0.65	
Rated insulation voltage Ui(V)	690	
Rated impulse withstand voltage Uimp(kV)	6	
Electrical endurance	1500	
Mechanical endurance	8500	
Terminal capacity	16~100A:2.5~35mm ² 125A:50mm ²	
Ambient temperature(°C)	-25~+40,Max.95%humidity	
Storage temperature(°C)	-20~+60	
Altitude (meters)	Max. 2000	
Protection degree	IP20	
Installation	Mounting on 35mm DIN rail	
Width	18mm per pole	
Certification	S CE CB	



KWI-R-1P



KWI-R-2P



KWI-R-3P



KWI-R-4P

KWI-R Series		Isolating Switch	
	Rated current(A)	IEC/EN 60947-3	Packing unit
 KWI-R-1P	16	KWI-R-16/1	12
	25	KWI-R-25/1	
	32	KWI-R-32/1	
	40	KWI-R-40/1	
	63	KWI-R-63/1	
	80	KWI-R-80/1	
	100	KWI-R-100/1	
	125	KWI-R-125/1	
 KWI-R-2P	16	KWI-R-16/2	6
	25	KWI-R-25/2	
	32	KWI-R-32/2	
	40	KWI-R-40/2	
	63	KWI-R-63/2	
	80	KWI-R-80/2	
	100	KWI-R-100/2	
	125	KWI-R-125/2	
 KWI-R-3P	16	KWI-R-16/3	4
	25	KWI-R-25/3	
	32	KWI-R-32/3	
	40	KWI-R-40/3	
	63	KWI-R-63/3	
	80	KWI-R-80/3	
	100	KWI-R-100/3	
	125	KWI-R-125/3	
 KWI-R-4P	16	KWI-R-16/4	3
	25	KWI-R-25/4	
	32	KWI-R-32/4	
	40	KWI-R-40/4	
	63	KWI-R-63/4	
	80	KWI-R-80/4	
	100	KWI-R-100/4	
	125	KWI-R-125/4	

KWI-R Series

Isolating Switch

■ Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	1500	120/h	16~125A
Mechanical endurance	8500	120/h	16~125A

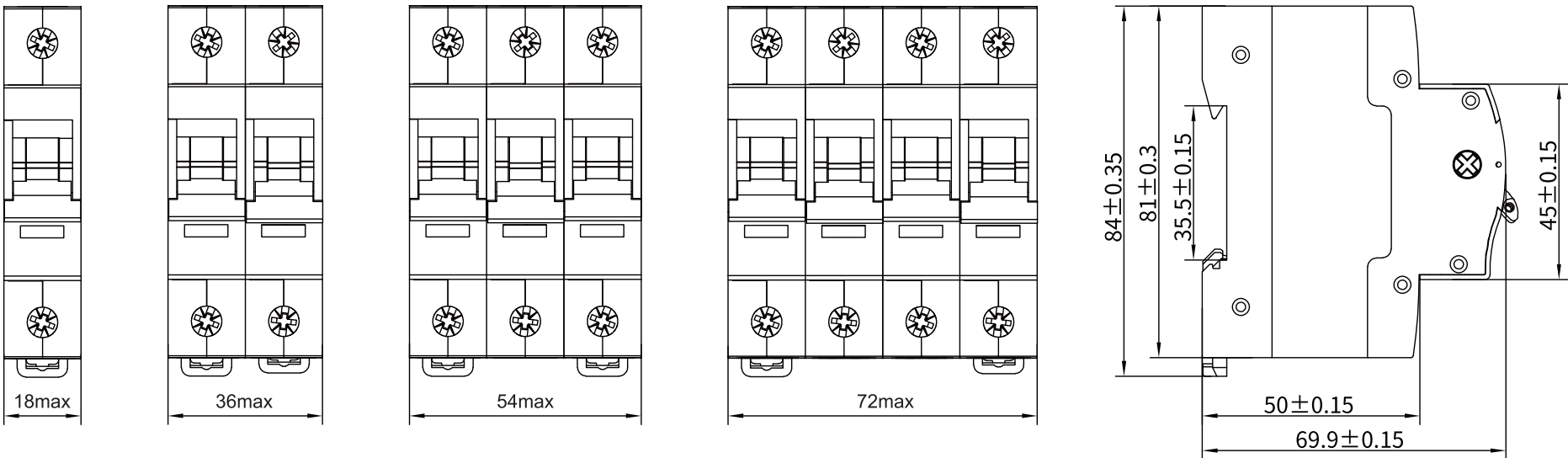
■ Wiring (The suitable conductors should be used for connection, see table below for relative parameters)

Rated current In(A)	Nominal cross section area s(mm ²)	Tightening torque (N.m)
16	2.5	2.5
25	4	
32	6	
40	10	
63	16	
80	25	
100	35	3.5
125	50	

■ Features

- Current capacity is enhanced and electric drive compensation is fully applied.
- Reliable operation thanks to special designed operating mechanism.
- Safe operation is ensured.

■ Overall and mounting dimensions



KWI-R

KWB9LE-40L Series Residual Current Circuit Breakers with Overcurrent Protection

Standard		IEC/EN 61009-1
Breaking capacity(kA)		6
Rated current(A),In		6,10,13,16,20,25,32,40
Number of poles		1P+N(Switched Neutral)
Rated sensitivity currents(mA),IΔn		10,30,100,300
Tripping curve		B,C
Rated residual non-operating current		0.5XIΔn
Rated impulse withstand voltage Uimp(kV)		4
Rated voltage(V)		AC 230/240
Ambient temperature (°C)		-25~+40,Max.95%humidity
Residual current off time		≤0.1s
Type of trip	Ground fault	Electronic
	Over current	Thermal-magnetic
Electrical endurance		4000
Mechanical endurance		10000
Terminal capacity		10mm² flexible / 16mm² rigid
Protection degree		IP20
Installation		35mm DIN rail
Certification		  



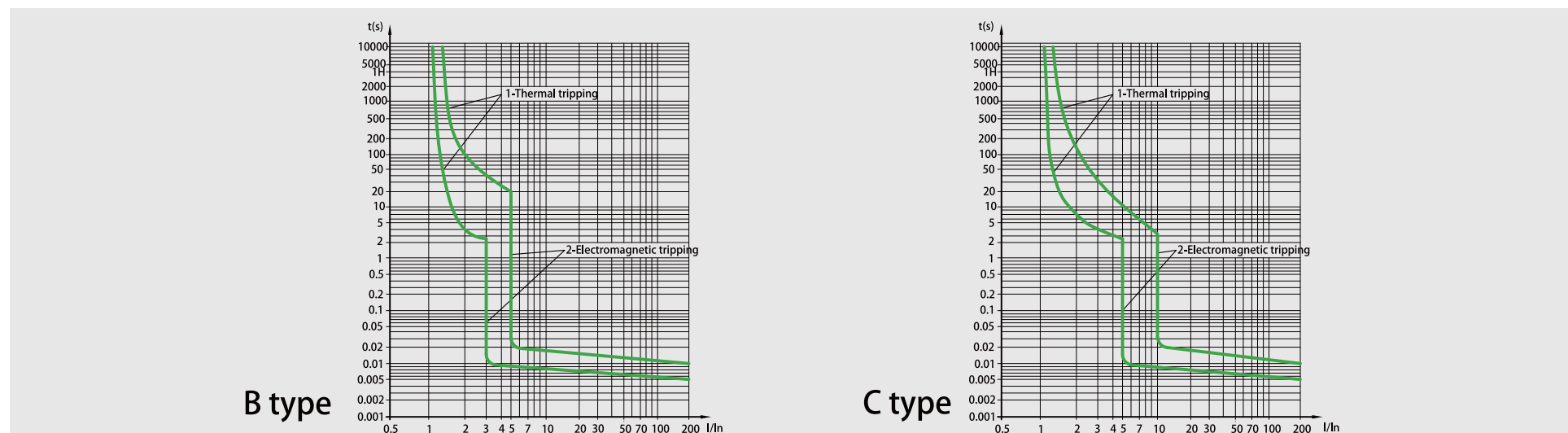
KWB9LE-40L

KWB9LE-40L Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type AC 		Type A 		Packing unit
			B curve	C curve	B curve	C curve	
 Type AC 	6	10mA	KWB9LE-40L/B6/10	KWB9LE-40L/C6/10	KWB9LE-40L/B6/10-A	KWB9LE-40L/C6/10-A	1
	10		KWB9LE-40L/B10/10	KWB9LE-40L/C10/10	KWB9LE-40L/B10/10-A	KWB9LE-40L/C10/10-A	
	13		KWB9LE-40L/B13/10	KWB9LE-40L/C13/10	KWB9LE-40L/B13/10-A	KWB9LE-40L/C13/10-A	
	16		KWB9LE-40L/B16/10	KWB9LE-40L/C16/10	KWB9LE-40L/B16/10-A	KWB9LE-40L/C16/10-A	
	20		KWB9LE-40L/B20/10	KWB9LE-40L/C20/10	KWB9LE-40L/B20/10-A	KWB9LE-40L/C20/10-A	
	25		KWB9LE-40L/B25/10	KWB9LE-40L/C25/10	KWB9LE-40L/B25/10-A	KWB9LE-40L/C25/10-A	
	32		KWB9LE-40L/B32/10	KWB9LE-40L/C32/10	KWB9LE-40L/B32/10-A	KWB9LE-40L/C32/10-A	
	40		KWB9LE-40L/B40/10	KWB9LE-40L/C40/10	KWB9LE-40L/B40/10-A	KWB9LE-40L/C40/10-A	
	6	30mA	KWB9LE-40L/B6/30	KWB9LE-40L/C6/30	KWB9LE-40L/B6/30-A	KWB9LE-40L/C6/30-A	
	10		KWB9LE-40L/B10/30	KWB9LE-40L/C10/30	KWB9LE-40L/B10/30-A	KWB9LE-40L/C10/30-A	
	13		KWB9LE-40L/B13/30	KWB9LE-40L/C13/30	KWB9LE-40L/B13/30-A	KWB9LE-40L/C13/30-A	
	16		KWB9LE-40L/B16/30	KWB9LE-40L/C16/30	KWB9LE-40L/B16/30-A	KWB9LE-40L/C16/30-A	
	20		KWB9LE-40L/B20/30	KWB9LE-40L/C20/30	KWB9LE-40L/B20/30-A	KWB9LE-40L/C20/30-A	
	25		KWB9LE-40L/B25/30	KWB9LE-40L/C25/30	KWB9LE-40L/B25/30-A	KWB9LE-40L/C25/30-A	
	32		KWB9LE-40L/B32/30	KWB9LE-40L/C32/30	KWB9LE-40L/B32/30-A	KWB9LE-40L/C32/30-A	
	40		KWB9LE-40L/B40/30	KWB9LE-40L/C40/30	KWB9LE-40L/B40/30-A	KWB9LE-40L/C40/30-A	
 Type A 	6	100mA	KWB9LE-40L/B6/100	KWB9LE-40L/C6/100	KWB9LE-40L/B6/100-A	KWB9LE-40L/C6/100-A	
	10		KWB9LE-40L/B10/100	KWB9LE-40L/C10/100	KWB9LE-40L/B10/100-A	KWB9LE-40L/C10/100-A	
	13		KWB9LE-40L/B13/100	KWB9LE-40L/C13/100	KWB9LE-40L/B13/100-A	KWB9LE-40L/C13/100-A	
	16		KWB9LE-40L/B16/100	KWB9LE-40L/C16/100	KWB9LE-40L/B16/100-A	KWB9LE-40L/C16/100-A	
	20		KWB9LE-40L/B20/100	KWB9LE-40L/C20/100	KWB9LE-40L/B20/100-A	KWB9LE-40L/C20/100-A	
	25		KWB9LE-40L/B25/100	KWB9LE-40L/C25/100	KWB9LE-40L/B25/100-A	KWB9LE-40L/C25/100-A	
	32		KWB9LE-40L/B32/100	KWB9LE-40L/C32/100	KWB9LE-40L/B32/100-A	KWB9LE-40L/C32/100-A	
	40		KWB9LE-40L/B40/100	KWB9LE-40L/C40/100	KWB9LE-40L/B40/100-A	KWB9LE-40L/C40/100-A	
	6	300mA	KWB9LE-40L/B6/300	KWB9LE-40L/C6/300	KWB9LE-40L/B6/300-A	KWB9LE-40L/C6/300-A	
	10		KWB9LE-40L/B10/300	KWB9LE-40L/C10/300	KWB9LE-40L/B10/300-A	KWB9LE-40L/C10/300-A	
	13		KWB9LE-40L/B13/300	KWB9LE-40L/C13/300	KWB9LE-40L/B13/300-A	KWB9LE-40L/C13/300-A	
	16		KWB9LE-40L/B16/300	KWB9LE-40L/C16/300	KWB9LE-40L/B16/300-A	KWB9LE-40L/C16/300-A	
	20		KWB9LE-40L/B20/300	KWB9LE-40L/C20/300	KWB9LE-40L/B20/300-A	KWB9LE-40L/C20/300-A	
	25		KWB9LE-40L/B25/300	KWB9LE-40L/C25/300	KWB9LE-40L/B25/300-A	KWB9LE-40L/C25/300-A	
	32		KWB9LE-40L/B32/300	KWB9LE-40L/C32/300	KWB9LE-40L/B32/300-A	KWB9LE-40L/C32/300-A	
	40		KWB9LE-40L/B40/300	KWB9LE-40L/C40/300	KWB9LE-40L/B40/300-A	KWB9LE-40L/C40/300-A	

KWB9LE-40L Series Residual Current Circuit Breakers with Overcurrent Protection

Curves



Breaking time of residual current

Max. breaking time					
$I_n(A)$	$I_{\Delta n}(A)$	$I_{\Delta n}$	$2 I_{\Delta n}$	$5 I_{\Delta n}$	$5-500A$
6-40	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

Wiring (The suitable conductors should be used for connection, see table below for relative parameters)

Rated current I_n (A)	Cross section area $s(mm^2)$	Tightening torque(N.m)
6	1	M5 2.0 M4 1.2
10	1.5	
13	1.5	
16-20	2.5	
25	4	
32	6	
40	10	

Types

The RCBOs are divided into types depending on the operating function:

Type AC : For which tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly rising.

Type A : For which tripping is ensured for residual sinusoidal alternating currents and residual pulsating direct currents, whether suddenly applied or slowly rising.

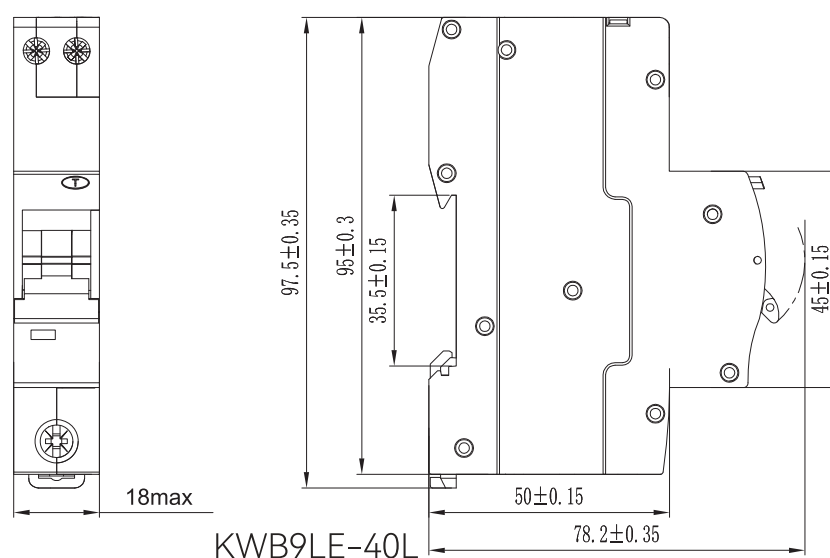
Tripping sensitivity data

RCBO with a rated residual current of maximum 30mA are used for personnel, material and fire protection, as well as for protection against direct contact.

RCBO with a rated residual current of maximum 300mA are used as preventative fire protection in case of insulation faults.

RCBO with a rated residual current of 100mA co-ordinated with the earth system according to the formula $I_{\Delta n} < 50/R$, to provide protection against indirect contacts.

Overall and mounting dimensions



KWB9LE-32M/H Series Residual Current Circuit Breakers with Overcurrent Protection

Standard		IEC/EN 61009-1
Breaking capacity(kA)		4.5,6
Rated current(A),I _n		6,10,13,16,20,25,32
Number of poles		1P+N
Rated sensitivity currents(mA),I _{Δn}		10,30,100,300
Tripping curve		B,C
Rated residual non-operating current		0.5XI _{Δn}
Rated impulse withstand voltage U _{imp} (kV)		4
Rated voltage(V)		AC 230/240
Ambient temperature (°C)		-25~+40,Max.95%humidity
Residual current off time		≤0.1s
Type of trip	Ground fault	Electronic
	Over current	Thermal-magnetic
Electrical endurance		4000
Mechanical endurance		10000
Terminal capacity		10mm ² flexible/16mm ² rigid
Protection degree		IP20
Installation		35mm DIN rail
Certification		Ⓢ ⒸⒺ ⒸⒷ



KWB9LE-32M



KWB9LE-32H

KWB9LE-32M Residual Current Circuit Breakers with Overcurrent Protection

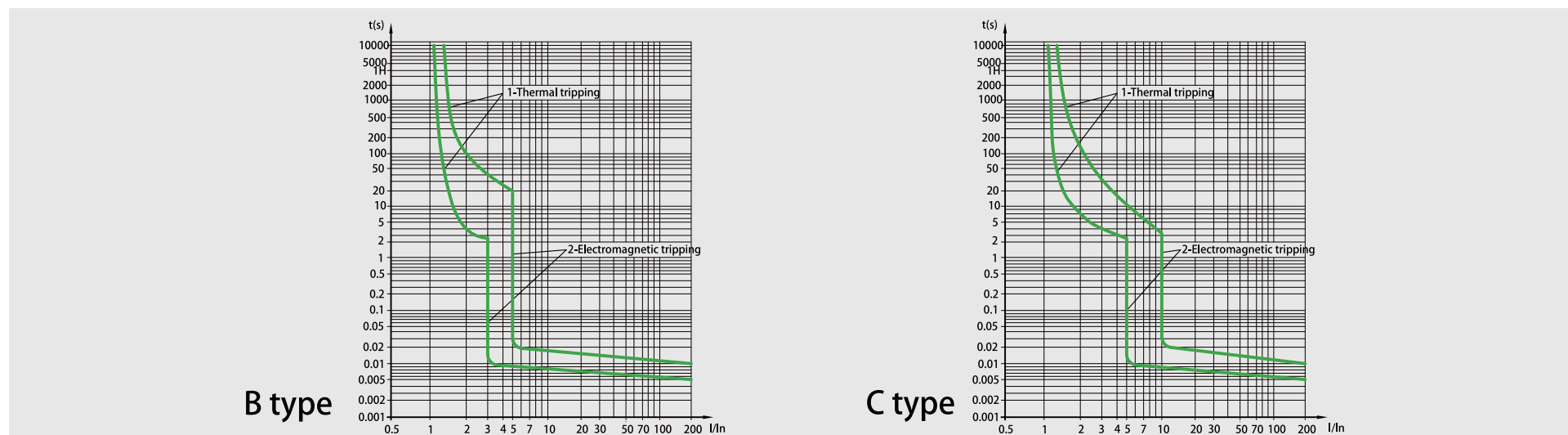
	Rated current(A)	I Δ n	Type AC 		Type A 		Packing unit
			B curve	C curve	B curve	C curve	
 Type AC 	6	10mA	KWB9LE-32M/B6/10	KWB9LE-32M/C6/10	KWB9LE-32M/B6/10-A	KWB9LE-32M/C6/10-A	12
	10		KWB9LE-32M/B10/10	KWB9LE-32M/C10/10	KWB9LE-32M/B10/10-A	KWB9LE-32M/C10/10-A	
	13		KWB9LE-32M/B13/10	KWB9LE-32M/C13/10	KWB9LE-32M/B13/10-A	KWB9LE-32M/C13/10-A	
	16		KWB9LE-32M/B16/10	KWB9LE-32M/C16/10	KWB9LE-32M/B16/10-A	KWB9LE-32M/C16/10-A	
	20		KWB9LE-32M/B20/10	KWB9LE-32M/C20/10	KWB9LE-32M/B20/10-A	KWB9LE-32M/C20/10-A	
	25		KWB9LE-32M/B25/10	KWB9LE-32M/C25/10	KWB9LE-32M/B25/10-A	KWB9LE-32M/C25/10-A	
	32		KWB9LE-32M/B32/10	KWB9LE-32M/C32/10	KWB9LE-32M/B32/10-A	KWB9LE-32M/C32/10-A	
	6	30mA	KWB9LE-32M/B6/30	KWB9LE-32M/C6/30	KWB9LE-32M/B6/30-A	KWB9LE-32M/C6/30-A	
	10		KWB9LE-32M/B10/30	KWB9LE-32M/C10/30	KWB9LE-32M/B10/30-A	KWB9LE-32M/C10/30-A	
	13		KWB9LE-32M/B13/30	KWB9LE-32M/C13/30	KWB9LE-32M/B13/30-A	KWB9LE-32M/C13/30-A	
	16		KWB9LE-32M/B16/30	KWB9LE-32M/C16/30	KWB9LE-32M/B16/30-A	KWB9LE-32M/C16/30-A	
	20		KWB9LE-32M/B20/30	KWB9LE-32M/C20/30	KWB9LE-32M/B20/30-A	KWB9LE-32M/C20/30-A	
	25		KWB9LE-32M/B25/30	KWB9LE-32M/C25/30	KWB9LE-32M/B25/30-A	KWB9LE-32M/C25/30-A	
	32		KWB9LE-32M/B32/30	KWB9LE-32M/C32/30	KWB9LE-32M/B32/30-A	KWB9LE-32M/C32/30-A	
	6	100mA	KWB9LE-32M/B6/100	KWB9LE-32M/C6/100	KWB9LE-32M/B6/100-A	KWB9LE-32M/C6/100-A	
	10		KWB9LE-32M/B10/100	KWB9LE-32M/C10/100	KWB9LE-32M/B10/100-A	KWB9LE-32M/C10/100-A	
	13		KWB9LE-32M/B13/100	KWB9LE-32M/C13/100	KWB9LE-32M/B13/100-A	KWB9LE-32M/C13/100-A	
	16		KWB9LE-32M/B16/100	KWB9LE-32M/C16/100	KWB9LE-32M/B16/100-A	KWB9LE-32M/C16/100-A	
	20		KWB9LE-32M/B20/100	KWB9LE-32M/C20/100	KWB9LE-32M/B20/100-A	KWB9LE-32M/C20/100-A	
	25		KWB9LE-32M/B25/100	KWB9LE-32M/C25/100	KWB9LE-32M/B25/100-A	KWB9LE-32M/C25/100-A	
	32		KWB9LE-32M/B32/100	KWB9LE-32M/C32/100	KWB9LE-32M/B32/100-A	KWB9LE-32M/C32/100-A	
	6	300mA	KWB9LE-32M/B6/300	KWB9LE-32M/C6/300	KWB9LE-32M/B6/300-A	KWB9LE-32M/C6/300-A	
	10		KWB9LE-32M/B10/300	KWB9LE-32M/C10/300	KWB9LE-32M/B10/300-A	KWB9LE-32M/C10/300-A	
	13		KWB9LE-32M/B13/300	KWB9LE-32M/C13/300	KWB9LE-32M/B13/300-A	KWB9LE-32M/C13/300-A	
	16		KWB9LE-32M/B16/300	KWB9LE-32M/C16/300	KWB9LE-32M/B16/300-A	KWB9LE-32M/C16/300-A	
	20		KWB9LE-32M/B20/300	KWB9LE-32M/C20/300	KWB9LE-32M/B20/300-A	KWB9LE-32M/C20/300-A	
	25		KWB9LE-32M/B25/300	KWB9LE-32M/C25/300	KWB9LE-32M/B25/300-A	KWB9LE-32M/C25/300-A	
	32		KWB9LE-32M/B32/300	KWB9LE-32M/C32/300	KWB9LE-32M/B32/300-A	KWB9LE-32M/C32/300-A	
 Type A 							

KWB9LE-32H Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	I Δ n	Type AC 		Type A 		Packing unit
			B curve	C curve	B curve	C curve	
 Type AC 	6	10mA	KWB9LE-32H/B6/10	KWB9LE-32H/C6/10	KWB9LE-32H/B6/10-A	KWB9LE-32H/C6/10-A	12
	10		KWB9LE-32H/B10/10	KWB9LE-32H/C10/10	KWB9LE-32H/B10/10-A	KWB9LE-32H/C10/10-A	
	13		KWB9LE-32H/B13/10	KWB9LE-32H/C13/10	KWB9LE-32H/B13/10-A	KWB9LE-32H/C13/10-A	
	16		KWB9LE-32H/B16/10	KWB9LE-32H/C16/10	KWB9LE-32H/B16/10-A	KWB9LE-32H/C16/10-A	
	20		KWB9LE-32H/B20/10	KWB9LE-32H/C20/10	KWB9LE-32H/B20/10-A	KWB9LE-32H/C20/10-A	
	25		KWB9LE-32H/B25/10	KWB9LE-32H/C25/10	KWB9LE-32H/B25/10-A	KWB9LE-32H/C25/10-A	
	32		KWB9LE-32H/B32/10	KWB9LE-32H/C32/10	KWB9LE-32H/B32/10-A	KWB9LE-32H/C32/10-A	
	6	30mA	KWB9LE-32H/B6/30	KWB9LE-32H/C6/30	KWB9LE-32H/B6/30-A	KWB9LE-32H/C6/30-A	
	10		KWB9LE-32H/B10/30	KWB9LE-32H/C10/30	KWB9LE-32H/B10/30-A	KWB9LE-32H/C10/30-A	
	13		KWB9LE-32H/B13/30	KWB9LE-32H/C13/30	KWB9LE-32H/B13/30-A	KWB9LE-32H/C13/30-A	
	16		KWB9LE-32H/B16/30	KWB9LE-32H/C16/30	KWB9LE-32H/B16/30-A	KWB9LE-32H/C16/30-A	
	20		KWB9LE-32H/B20/30	KWB9LE-32H/C20/30	KWB9LE-32H/B20/30-A	KWB9LE-32H/C20/30-A	
	25		KWB9LE-32H/B25/30	KWB9LE-32H/C25/30	KWB9LE-32H/B25/30-A	KWB9LE-32H/C25/30-A	
	32		KWB9LE-32H/B32/30	KWB9LE-32H/C32/30	KWB9LE-32H/B32/30-A	KWB9LE-32H/C32/30-A	
	6	100mA	KWB9LE-32H/B6/100	KWB9LE-32H/C6/100	KWB9LE-32H/B6/100-A	KWB9LE-32H/C6/100-A	
	10		KWB9LE-32H/B10/100	KWB9LE-32H/C10/100	KWB9LE-32H/B10/100-A	KWB9LE-32H/C10/100-A	
	13		KWB9LE-32H/B13/100	KWB9LE-32H/C13/100	KWB9LE-32H/B13/100-A	KWB9LE-32H/C13/100-A	
	16		KWB9LE-32H/B16/100	KWB9LE-32H/C16/100	KWB9LE-32H/B16/100-A	KWB9LE-32H/C16/100-A	
	20		KWB9LE-32H/B20/100	KWB9LE-32H/C20/100	KWB9LE-32H/B20/100-A	KWB9LE-32H/C20/100-A	
	25		KWB9LE-32H/B25/100	KWB9LE-32H/C25/100	KWB9LE-32H/B25/100-A	KWB9LE-32H/C25/100-A	
	32		KWB9LE-32H/B32/100	KWB9LE-32H/C32/100	KWB9LE-32H/B32/100-A	KWB9LE-32H/C32/100-A	
	6	300mA	KWB9LE-32H/B6/300	KWB9LE-32H/C6/300	KWB9LE-32H/B6/300-A	KWB9LE-32H/C6/300-A	
	10		KWB9LE-32H/B10/300	KWB9LE-32H/C10/300	KWB9LE-32H/B10/300-A	KWB9LE-32H/C10/300-A	
	13		KWB9LE-32H/B13/300	KWB9LE-32H/C13/300	KWB9LE-32H/B13/300-A	KWB9LE-32H/C13/300-A	
	16		KWB9LE-32H/B16/300	KWB9LE-32H/C16/300	KWB9LE-32H/B16/300-A	KWB9LE-32H/C16/300-A	
	20		KWB9LE-32H/B20/300	KWB9LE-32H/C20/300	KWB9LE-32H/B20/300-A	KWB9LE-32H/C20/300-A	
	25		KWB9LE-32H/B25/300	KWB9LE-32H/C25/300	KWB9LE-32H/B25/300-A	KWB9LE-32H/C25/300-A	
	32		KWB9LE-32H/B32/300	KWB9LE-32H/C32/300	KWB9LE-32H/B32/300-A	KWB9LE-32H/C32/300-A	
 Type A 							

KWB9LE-32M/H Series Residual Current Circuit Breakers with Overcurrent Protection

Curves



Breaking time of residual current

$I_n(A)$	$I_{\Delta n}(A)$	Max.breaking time			
		$I_{\Delta n}$	$2 I_{\Delta n}$	$5 I_{\Delta n}$	5A-500A
6-32	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

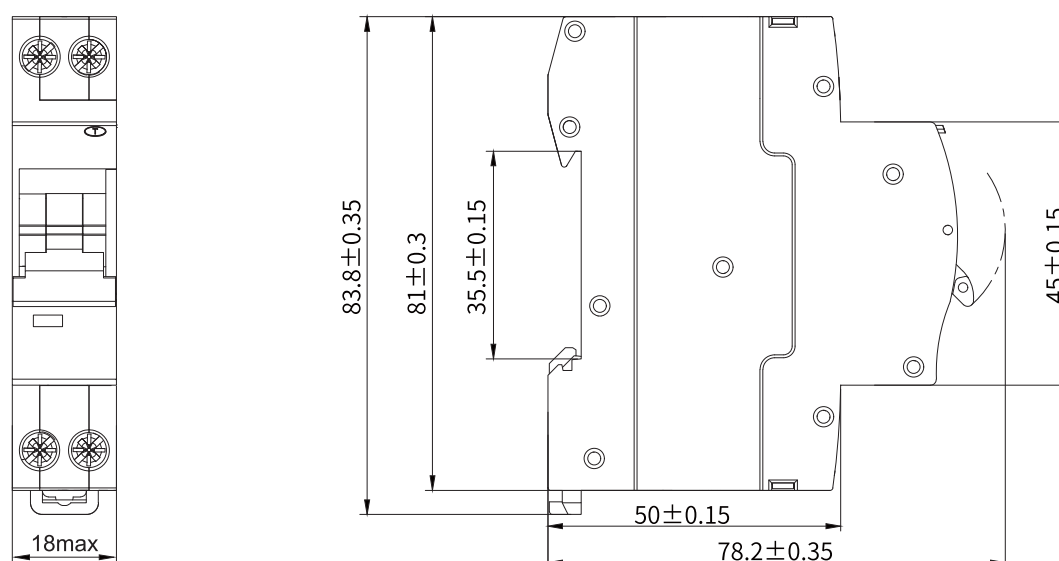
Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current $I_n(A)$	Cross section area $s(mm^2)$	Tightening torque(N.m)
6	1	1.2
10-13	1.5	
16-20	2.5	
25	4	
32	6	

Features

- Switching and isolation function.
- Protection against overload and short-circuit currents.
- Protection against the effects of sinusoidal alternating earth fault currents.
- Protection against indirect contacts and additional protection against direct contacts.
- Protection against fire hazard caused by insulation faults.
- Used in residential building and distribution boards.

Overall and mounting dimensions



KWB9LE-32M/H

KWB9LE-63M/H Series Residual Current Circuit Breakers with Overcurrent Protection

Standard		IEC/EN 61009-1
Breaking capacity(kA)		6,10
Rated current(A),I _n		6,10,13,16,20,25,32,40,50,63
Number of poles		1P+N
Rated sensitivity currents(mA),I _{Δn}		10,30,100,300
Tripping curve		B,C
Rated residual non-operating current		0.5XI _{Δn}
Rated impulse withstand voltage U _{imp} (kV)		4
Rated voltage(V)		AC 230/240
Ambient temperature (°C)		-25~+40,Max.95%humidity
Residual current off time		≤0.1s
Type of trip	Ground fault	Electronic
	Over current	Thermal-magnetic
Electrical endurance		4000
Mechanical endurance		10000
Terminal capacity		16mm ² flexible/25mm ² rigid
Protection degree		IP20
Installation		35mm DIN rail
Certification		  CB



KWB9LE-63M



KWB9LE-63H

KWB9LE-63M Residual Current Circuit Breakers with Overcurrent Protection

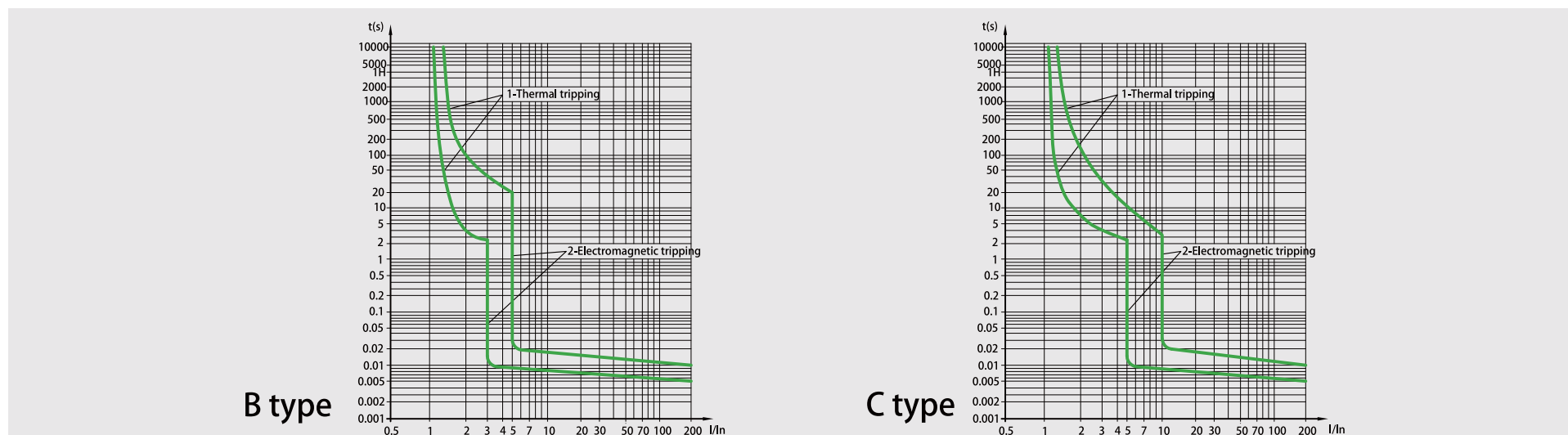
	Rated current(A)	I _{Δn}	Type AC 		Type A 		Packing unit
			B curve	C curve	B curve	C curve	
 Type AC 	6	10mA	KWB9LE-63M-B6/10	KWB9LE-63M-C6/10	KWB9LE-63M-B6/10-A	KWB9LE-63M-C6/10-A	6
	10		KWB9LE-63M-B10/10	KWB9LE-63M-C10/10	KWB9LE-63M-B10/10-A	KWB9LE-63M-C10/10-A	
	13		KWB9LE-63M-B13/10	KWB9LE-63M-C13/10	KWB9LE-63M-B13/10-A	KWB9LE-63M-C13/10-A	
	16		KWB9LE-63M-B16/10	KWB9LE-63M-C16/10	KWB9LE-63M-B16/10-A	KWB9LE-63M-C16/10-A	
	20		KWB9LE-63M-B20/10	KWB9LE-63M-C20/10	KWB9LE-63M-B20/10-A	KWB9LE-63M-C20/10-A	
	25		KWB9LE-63M-B25/10	KWB9LE-63M-C25/10	KWB9LE-63M-B25/10-A	KWB9LE-63M-C25/10-A	
	32		KWB9LE-63M-B32/10	KWB9LE-63M-C32/10	KWB9LE-63M-B32/10-A	KWB9LE-63M-C32/10-A	
	40		KWB9LE-63M-B40/10	KWB9LE-63M-C40/10	KWB9LE-63M-B40/10-A	KWB9LE-63M-C40/10-A	
	50		KWB9LE-63M-B50/10	KWB9LE-63M-C50/10	KWB9LE-63M-B50/10-A	KWB9LE-63M-C50/10-A	
	63		KWB9LE-63M-B63/10	KWB9LE-63M-C63/10	KWB9LE-63M-B63/10-A	KWB9LE-63M-C63/10-A	
	6	30mA	KWB9LE-63M-B6/30	KWB9LE-63M-C6/30	KWB9LE-63M-B6/30-A	KWB9LE-63M-C6/30-A	
	10		KWB9LE-63M-B10/30	KWB9LE-63M-C10/30	KWB9LE-63M-B10/30-A	KWB9LE-63M-C10/30-A	
	13		KWB9LE-63M-B13/30	KWB9LE-63M-C13/30	KWB9LE-63M-B13/30-A	KWB9LE-63M-C13/30-A	
	16		KWB9LE-63M-B16/30	KWB9LE-63M-C16/30	KWB9LE-63M-B16/30-A	KWB9LE-63M-C16/30-A	
	20		KWB9LE-63M-B20/30	KWB9LE-63M-C20/30	KWB9LE-63M-B20/30-A	KWB9LE-63M-C20/30-A	
	25		KWB9LE-63M-B25/30	KWB9LE-63M-C25/30	KWB9LE-63M-B25/30-A	KWB9LE-63M-C25/30-A	
	32		KWB9LE-63M-B32/30	KWB9LE-63M-C32/30	KWB9LE-63M-B32/30-A	KWB9LE-63M-C32/30-A	
	40		KWB9LE-63M-B40/30	KWB9LE-63M-C40/30	KWB9LE-63M-B40/30-A	KWB9LE-63M-C40/30-A	
	50		KWB9LE-63M-B50/30	KWB9LE-63M-C50/30	KWB9LE-63M-B50/30-A	KWB9LE-63M-C50/30-A	
	63		KWB9LE-63M-B63/30	KWB9LE-63M-C63/30	KWB9LE-63M-B63/30-A	KWB9LE-63M-C63/30-A	
 Type A 	6	100mA	KWB9LE-63M-B6/100	KWB9LE-63M-C6/100	KWB9LE-63M-B6/100-A	KWB9LE-63M-C6/100-A	
	10		KWB9LE-63M-B10/100	KWB9LE-63M-C10/100	KWB9LE-63M-B10/100-A	KWB9LE-63M-C10/100-A	
	13		KWB9LE-63M-B13/100	KWB9LE-63M-C13/100	KWB9LE-63M-B13/100-A	KWB9LE-63M-C13/100-A	
	16		KWB9LE-63M-B16/100	KWB9LE-63M-C16/100	KWB9LE-63M-B16/100-A	KWB9LE-63M-C16/100-A	
	20		KWB9LE-63M-B20/100	KWB9LE-63M-C20/100	KWB9LE-63M-B20/100-A	KWB9LE-63M-C20/100-A	
	25		KWB9LE-63M-B25/100	KWB9LE-63M-C25/100	KWB9LE-63M-B25/100-A	KWB9LE-63M-C25/100-A	
	32		KWB9LE-63M-B32/100	KWB9LE-63M-C32/100	KWB9LE-63M-B32/100-A	KWB9LE-63M-C32/100-A	
	40		KWB9LE-63M-B40/100	KWB9LE-63M-C40/100	KWB9LE-63M-B40/100-A	KWB9LE-63M-C40/100-A	
	50		KWB9LE-63M-B50/100	KWB9LE-63M-C50/100	KWB9LE-63M-B50/100-A	KWB9LE-63M-C50/100-A	
	63		KWB9LE-63M-B63/100	KWB9LE-63M-C63/100	KWB9LE-63M-B63/100-A	KWB9LE-63M-C63/100-A	
	6	300mA	KWB9LE-63M-B6/300	KWB9LE-63M-C6/300	KWB9LE-63M-B6/300-A	KWB9LE-63M-C6/300-A	
	10		KWB9LE-63M-B10/300	KWB9LE-63M-C10/300	KWB9LE-63M-B10/300-A	KWB9LE-63M-C10/300-A	
	13		KWB9LE-63M-B13/300	KWB9LE-63M-C13/300	KWB9LE-63M-B13/300-A	KWB9LE-63M-C13/300-A	
	16		KWB9LE-63M-B16/300	KWB9LE-63M-C16/300	KWB9LE-63M-B16/300-A	KWB9LE-63M-C16/300-A	
	20		KWB9LE-63M-B20/300	KWB9LE-63M-C20/300	KWB9LE-63M-B20/300-A	KWB9LE-63M-C20/300-A	
	25		KWB9LE-63M-B25/300	KWB9LE-63M-C25/300	KWB9LE-63M-B25/300-A	KWB9LE-63M-C25/300-A	
	32		KWB9LE-63M-B32/300	KWB9LE-63M-C32/300	KWB9LE-63M-B32/300-A	KWB9LE-63M-C32/300-A	
	40		KWB9LE-63M-B40/300	KWB9LE-63M-C40/300	KWB9LE-63M-B40/300-A	KWB9LE-63M-C40/300-A	
	50		KWB9LE-63M-B50/300	KWB9LE-63M-C50/300	KWB9LE-63M-B50/300-A	KWB9LE-63M-C50/300-A	
	63		KWB9LE-63M-B63/300	KWB9LE-63M-C63/300	KWB9LE-63M-B63/300-A	KWB9LE-63M-C63/300-A	

KWB9LE-63H Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	I Δ n	Type AC 		Type A 		Packing unit
			B curve	C curve	B curve	C curve	
 Type AC 	6	10mA	KWB9LE-63H-B6/10	KWB9LE-63H-C6/10	KWB9LE-63H-B6/10-A	KWB9LE-63H-C6/10-A	6
	10		KWB9LE-63H-B10/10	KWB9LE-63H-C10/10	KWB9LE-63H-B10/10-A	KWB9LE-63H-C10/10-A	
	13		KWB9LE-63H-B13/10	KWB9LE-63H-C13/10	KWB9LE-63H-B13/10-A	KWB9LE-63H-C13/10-A	
	16		KWB9LE-63H-B16/10	KWB9LE-63H-C16/10	KWB9LE-63H-B16/10-A	KWB9LE-63H-C16/10-A	
	20		KWB9LE-63H-B20/10	KWB9LE-63H-C20/10	KWB9LE-63H-B20/10-A	KWB9LE-63H-C20/10-A	
	25		KWB9LE-63H-B25/10	KWB9LE-63H-C25/10	KWB9LE-63H-B25/10-A	KWB9LE-63H-C25/10-A	
	32		KWB9LE-63H-B32/10	KWB9LE-63H-C32/10	KWB9LE-63H-B32/10-A	KWB9LE-63H-C32/10-A	
	40		KWB9LE-63H-B40/10	KWB9LE-63H-C40/10	KWB9LE-63H-B40/10-A	KWB9LE-63H-C40/10-A	
	50		KWB9LE-63H-B50/10	KWB9LE-63H-C50/10	KWB9LE-63H-B50/10-A	KWB9LE-63H-C50/10-A	
	63		KWB9LE-63H-B63/10	KWB9LE-63H-C63/10	KWB9LE-63H-B63/10-A	KWB9LE-63H-C63/10-A	
	6	30mA	KWB9LE-63H-B6/30	KWB9LE-63H-C6/30	KWB9LE-63H-B6/30-A	KWB9LE-63H-C6/30-A	
	10		KWB9LE-63H-B10/30	KWB9LE-63H-C10/30	KWB9LE-63H-B10/30-A	KWB9LE-63H-C10/30-A	
	13		KWB9LE-63H-B13/30	KWB9LE-63H-C13/30	KWB9LE-63H-B13/30-A	KWB9LE-63H-C13/30-A	
	16		KWB9LE-63H-B16/30	KWB9LE-63H-C16/30	KWB9LE-63H-B16/30-A	KWB9LE-63H-C16/30-A	
	20		KWB9LE-63H-B20/30	KWB9LE-63H-C20/30	KWB9LE-63H-B20/30-A	KWB9LE-63H-C20/30-A	
	25		KWB9LE-63H-B25/30	KWB9LE-63H-C25/30	KWB9LE-63H-B25/30-A	KWB9LE-63H-C25/30-A	
	32		KWB9LE-63H-B32/30	KWB9LE-63H-C32/30	KWB9LE-63H-B32/30-A	KWB9LE-63H-C32/30-A	
	40		KWB9LE-63H-B40/30	KWB9LE-63H-C40/30	KWB9LE-63H-B40/30-A	KWB9LE-63H-C40/30-A	
	50		KWB9LE-63H-B50/30	KWB9LE-63H-C50/30	KWB9LE-63H-B50/30-A	KWB9LE-63H-C50/30-A	
	63		KWB9LE-63H-B63/30	KWB9LE-63H-C63/30	KWB9LE-63H-B63/30-A	KWB9LE-63H-C63/30-A	
 Type A 	6	100mA	KWB9LE-63H-B6/100	KWB9LE-63H-C6/100	KWB9LE-63H-B6/100-A	KWB9LE-63H-C6/100-A	
	10		KWB9LE-63H-B10/100	KWB9LE-63H-C10/100	KWB9LE-63H-B10/100-A	KWB9LE-63H-C10/100-A	
	13		KWB9LE-63H-B13/100	KWB9LE-63H-C13/100	KWB9LE-63H-B13/100-A	KWB9LE-63H-C13/100-A	
	16		KWB9LE-63H-B16/100	KWB9LE-63H-C16/100	KWB9LE-63H-B16/100-A	KWB9LE-63H-C16/100-A	
	20		KWB9LE-63H-B20/100	KWB9LE-63H-C20/100	KWB9LE-63H-B20/100-A	KWB9LE-63H-C20/100-A	
	25		KWB9LE-63H-B25/100	KWB9LE-63H-C25/100	KWB9LE-63H-B25/100-A	KWB9LE-63H-C25/100-A	
	32		KWB9LE-63H-B32/100	KWB9LE-63H-C32/100	KWB9LE-63H-B32/100-A	KWB9LE-63H-C32/100-A	
	40		KWB9LE-63H-B40/100	KWB9LE-63H-C40/100	KWB9LE-63H-B40/100-A	KWB9LE-63H-C40/100-A	
	50		KWB9LE-63H-B50/100	KWB9LE-63H-C50/100	KWB9LE-63H-B50/100-A	KWB9LE-63H-C50/100-A	
	63		KWB9LE-63H-B63/100	KWB9LE-63H-C63/100	KWB9LE-63H-B63/100-A	KWB9LE-63H-C63/100-A	
	6	300mA	KWB9LE-63H-B6/300	KWB9LE-63H-C6/300	KWB9LE-63H-B6/300-A	KWB9LE-63H-C6/300-A	
	10		KWB9LE-63H-B10/300	KWB9LE-63H-C10/300	KWB9LE-63H-B10/300-A	KWB9LE-63H-C10/300-A	
	13		KWB9LE-63H-B13/300	KWB9LE-63H-C13/300	KWB9LE-63H-B13/300-A	KWB9LE-63H-C13/300-A	
	16		KWB9LE-63H-B16/300	KWB9LE-63H-C16/300	KWB9LE-63H-B16/300-A	KWB9LE-63H-C16/300-A	
	20		KWB9LE-63H-B20/300	KWB9LE-63H-C20/300	KWB9LE-63H-B20/300-A	KWB9LE-63H-C20/300-A	
	25		KWB9LE-63H-B25/300	KWB9LE-63H-C25/300	KWB9LE-63H-B25/300-A	KWB9LE-63H-C25/300-A	
	32		KWB9LE-63H-B32/300	KWB9LE-63H-C32/300	KWB9LE-63H-B32/300-A	KWB9LE-63H-C32/300-A	
	40		KWB9LE-63H-B40/300	KWB9LE-63H-C40/300	KWB9LE-63H-B40/300-A	KWB9LE-63H-C40/300-A	
	50		KWB9LE-63H-B50/300	KWB9LE-63H-C50/300	KWB9LE-63H-B50/300-A	KWB9LE-63H-C50/300-A	
	63		KWB9LE-63H-B63/300	KWB9LE-63H-C63/300	KWB9LE-63H-B63/300-A	KWB9LE-63H-C63/300-A	

KWB9LE-63M/H Series Residual Current Circuit Breakers with Overcurrent Protection

Curves



Breaking time of residual current

Max.breaking time					
$I_n(A)$	$I_{\Delta n}(A)$	$I_{\Delta n}$	$2 I_{\Delta n}$	$5 I_{\Delta n}$	5-500A
6-63	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current I_n (A)	Cross section area $s(mm^2)$	Tightening torque(N.m)
6	1	2.0
10	1.5	
13	1.5	
16-20	2.5	
25	4	
32	6	
40-50	10	
63	16	

Types

The RCBOs are divided into types depending on the operating function:

Type AC : For which tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly rising.

Type A : For which tripping is ensured for residual sinusoidal alternating currents and residual pulsating direct currents, whether suddenly applied or slowly rising.

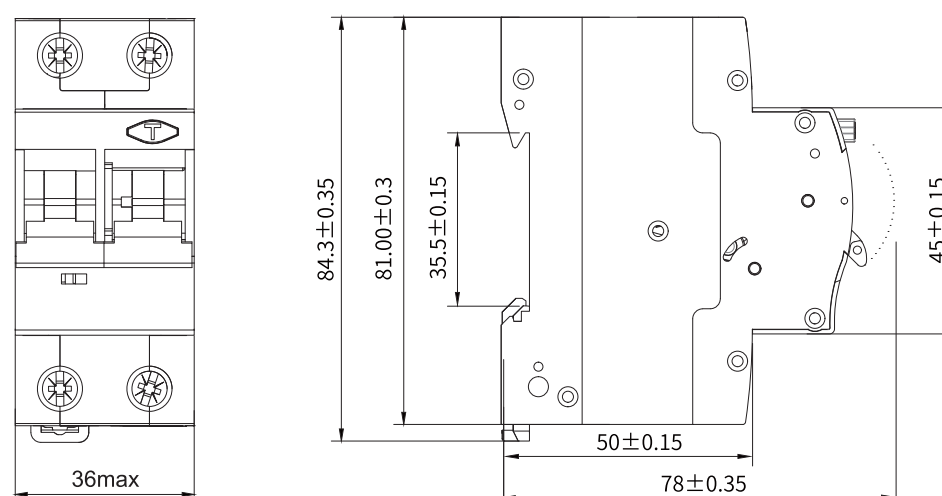
Tripping sensitivity data

RCBO with a rated residual current of maximum 30mA are used for personnel,material and fire protection, as well as for protection against direct contact.

RCBO with a rated residual current of maximum 300mA are used as preventative fire protection in case of insulation faults.

RCBO with a rated residual current of 100mA co-ordinated with the earth system according to the formula $I_{\Delta n} < 50/R$, to provide protection again indirect contacts.

Overall and mounting dimensions



KWB9LE-63M/H

KWB9L-63M Series Residual Current Circuit Breakers with Overcurrent Protection

Standard		IEC/EN 61009-1
Breaking capacity(kA)		6
Rated current(A),In		6,10,16,20,25,32,40,50,63
Number of poles		1P+N,2P,3P,3P+N,4P
Rated sensitivity currents(mA),IΔn		10,30,100,300
Tripping curve		B,C,D
Rated residual non-operating current		0.5XIΔn
Rated impulse withstand voltage Uimp(kV)		4
Rated voltage(V)		1P+N, 2P: AC 230/240;3P, 3P+N, 4P:AC 400/415
Ambient temperature (°C)		-25~+40,Max.95%humidity
Residual current off time		≤0.1s
Type of trip	Ground fault	Electronic
	Over current	Thermal-magnetic
Electrical endurance		4000
Mechanical endurance		10000
Terminal capacity		16mm² flexible/25mm² rigid
Protection degree		IP20
Installation		35mm DIN rail
Certification		



KWB9L-63M-1P+N



KWB9L-63M-2P



KWB9L-63M-3P



KWB9L-63M-4P

KWB9L-63M Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	I Δ n	Type AC 			Packing unit
			B curve	C curve	D curve	
 Type AC 	6	10mA	KWB9L-63M-1-B6N/10	KWB9L-63M-1-C6N/10	KWB9L-63M-1-D6N/10	1
	10		KWB9L-63M-1-B10N/10	KWB9L-63M-1-C10N/10	KWB9L-63M-1-D10N/10	
	16		KWB9L-63M-1-B16N/10	KWB9L-63M-1-C16N/10	KWB9L-63M-1-D16N/10	
	20		KWB9L-63M-1-B20N/10	KWB9L-63M-1-C20N/10	KWB9L-63M-1-D20N/10	
	25		KWB9L-63M-1-B25N/10	KWB9L-63M-1-C25N/10	KWB9L-63M-1-D25N/10	
	32		KWB9L-63M-1-B32N/10	KWB9L-63M-1-C32N/10	KWB9L-63M-1-D32N/10	
	40		KWB9L-63M-1-B40N/10	KWB9L-63M-1-C40N/10	KWB9L-63M-1-D40N/10	
	50		KWB9L-63M-1-B50N/10	KWB9L-63M-1-C50N/10	KWB9L-63M-1-D50N/10	
	63		KWB9L-63M-1-B63N/10	KWB9L-63M-1-C63N/10	KWB9L-63M-1-D63N/10	
	6	30mA	KWB9L-63M-1-B6N/30	KWB9L-63M-1-C6N/30	KWB9L-63M-1-D6N/30	
	10		KWB9L-63M-1-B10N/30	KWB9L-63M-1-C10N/30	KWB9L-63M-1-D10N/30	
	16		KWB9L-63M-1-B16N/30	KWB9L-63M-1-C16N/30	KWB9L-63M-1-D16N/30	
	20		KWB9L-63M-1-B20N/30	KWB9L-63M-1-C20N/30	KWB9L-63M-1-D20N/30	
	25		KWB9L-63M-1-B25N/30	KWB9L-63M-1-C25N/30	KWB9L-63M-1-D25N/30	
	32		KWB9L-63M-1-B32N/30	KWB9L-63M-1-C32N/30	KWB9L-63M-1-D32N/30	
	40		KWB9L-63M-1-B40N/30	KWB9L-63M-1-C40N/30	KWB9L-63M-1-D40N/30	
	50		KWB9L-63M-1-B50N/30	KWB9L-63M-1-C50N/30	KWB9L-63M-1-D50N/30	
	63		KWB9L-63M-1-B63N/30	KWB9L-63M-1-C63N/30	KWB9L-63M-1-D63N/30	
	6	100mA	KWB9L-63M-1-B6N/100	KWB9L-63M-1-C6N/100	KWB9L-63M-1-D6N/100	
	10		KWB9L-63M-1-B10N/100	KWB9L-63M-1-C10N/100	KWB9L-63M-1-D10N/100	
	16		KWB9L-63M-1-B16N/100	KWB9L-63M-1-C16N/100	KWB9L-63M-1-D16N/100	
	20		KWB9L-63M-1-B20N/100	KWB9L-63M-1-C20N/100	KWB9L-63M-1-D20N/100	
	25		KWB9L-63M-1-B25N/100	KWB9L-63M-1-C25N/100	KWB9L-63M-1-D25N/100	
	32		KWB9L-63M-1-B32N/100	KWB9L-63M-1-C32N/100	KWB9L-63M-1-D32N/100	
	40		KWB9L-63M-1-B40N/100	KWB9L-63M-1-C40N/100	KWB9L-63M-1-D40N/100	
	50		KWB9L-63M-1-B50N/100	KWB9L-63M-1-C50N/100	KWB9L-63M-1-D50N/100	
	63		KWB9L-63M-1-B63N/100	KWB9L-63M-1-C63N/100	KWB9L-63M-1-D63N/100	
	6	300mA	KWB9L-63M-1-B6N/300	KWB9L-63M-1-C6N/300	KWB9L-63M-1-D6N/300	
	10		KWB9L-63M-1-B10N/300	KWB9L-63M-1-C10N/300	KWB9L-63M-1-D10N/300	
	16		KWB9L-63M-1-B16N/300	KWB9L-63M-1-C16N/300	KWB9L-63M-1-D16N/300	
	20		KWB9L-63M-1-B20N/300	KWB9L-63M-1-C20N/300	KWB9L-63M-1-D20N/300	
	25		KWB9L-63M-1-B25N/300	KWB9L-63M-1-C25N/300	KWB9L-63M-1-D25N/300	
	32		KWB9L-63M-1-B32N/300	KWB9L-63M-1-C32N/300	KWB9L-63M-1-D32N/300	
	40		KWB9L-63M-1-B40N/300	KWB9L-63M-1-C40N/300	KWB9L-63M-1-D40N/300	
	50		KWB9L-63M-1-B50N/300	KWB9L-63M-1-C50N/300	KWB9L-63M-1-D50N/300	
	63		KWB9L-63M-1-B63N/300	KWB9L-63M-1-C63N/300	KWB9L-63M-1-D63N/300	

KWB9L-63M Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	I Δ n	Type AC 			Packing unit
			B curve	C curve	D curve	
 Type AC 	6	10mA	KWB9L-63M-2-B6/10	KWB9L-63M-2-C6/10	KWB9L-63M-2-D6/10	1
	10		KWB9L-63M-2-B10/10	KWB9L-63M-2-C10/10	KWB9L-63M-2-D10/10	
	16		KWB9L-63M-2-B16/10	KWB9L-63M-2-C16/10	KWB9L-63M-2-D16/10	
	20		KWB9L-63M-2-B20/10	KWB9L-63M-2-C20/10	KWB9L-63M-2-D20/10	
	25		KWB9L-63M-2-B25/10	KWB9L-63M-2-C25/10	KWB9L-63M-2-D25/10	
	32		KWB9L-63M-2-B32/10	KWB9L-63M-2-C32/10	KWB9L-63M-2-D32/10	
	40		KWB9L-63M-2-B40/10	KWB9L-63M-2-C40/10	KWB9L-63M-2-D40/10	
	50		KWB9L-63M-2-B50/10	KWB9L-63M-2-C50/10	KWB9L-63M-2-D50/10	
	63		KWB9L-63M-2-B63/10	KWB9L-63M-2-C63/10	KWB9L-63M-2-D63/10	
	6	30mA	KWB9L-63M-2-B6/30	KWB9L-63M-2-C6/30	KWB9L-63M-2-D6/30	
	10		KWB9L-63M-2-B10/30	KWB9L-63M-2-C10/30	KWB9L-63M-2-D10/30	
	16		KWB9L-63M-2-B16/30	KWB9L-63M-2-C16/30	KWB9L-63M-2-D16/30	
	20		KWB9L-63M-2-B20/30	KWB9L-63M-2-C20/30	KWB9L-63M-2-D20/30	
	25		KWB9L-63M-2-B25/30	KWB9L-63M-2-C25/30	KWB9L-63M-2-D25/30	
	32		KWB9L-63M-2-B32/30	KWB9L-63M-2-C32/30	KWB9L-63M-2-D32/30	
	40		KWB9L-63M-2-B40/30	KWB9L-63M-2-C40/30	KWB9L-63M-2-D40/30	
	50		KWB9L-63M-2-B50/30	KWB9L-63M-2-C50/30	KWB9L-63M-2-D50/30	
	63		KWB9L-63M-2-B63/30	KWB9L-63M-2-C63/30	KWB9L-63M-2-D63/30	
	6	100mA	KWB9L-63M-2-B6/100	KWB9L-63M-2-C6/100	KWB9L-63M-2-D6/100	
	10		KWB9L-63M-2-B10/100	KWB9L-63M-2-C10/100	KWB9L-63M-2-D10/100	
	16		KWB9L-63M-2-B16/100	KWB9L-63M-2-C16/100	KWB9L-63M-2-D16/100	
	20		KWB9L-63M-2-B20/100	KWB9L-63M-2-C20/100	KWB9L-63M-2-D20/100	
	25		KWB9L-63M-2-B25/100	KWB9L-63M-2-C25/100	KWB9L-63M-2-D25/100	
	32		KWB9L-63M-2-B32/100	KWB9L-63M-2-C32/100	KWB9L-63M-2-D32/100	
	40		KWB9L-63M-2-B40/100	KWB9L-63M-2-C40/100	KWB9L-63M-2-D40/100	
	50		KWB9L-63M-2-B50/100	KWB9L-63M-2-C50/100	KWB9L-63M-2-D50/100	
	63		KWB9L-63M-2-B63/100	KWB9L-63M-2-C63/100	KWB9L-63M-2-D63/100	
	6	300mA	KWB9L-63M-2-B6/300	KWB9L-63M-2-C6/300	KWB9L-63M-2-D6/300	
	10		KWB9L-63M-2-B10/300	KWB9L-63M-2-C10/300	KWB9L-63M-2-D10/300	
	16		KWB9L-63M-2-B16/300	KWB9L-63M-2-C16/300	KWB9L-63M-2-D16/300	
	20		KWB9L-63M-2-B20/300	KWB9L-63M-2-C20/300	KWB9L-63M-2-D20/300	
	25		KWB9L-63M-2-B25/300	KWB9L-63M-2-C25/300	KWB9L-63M-2-D25/300	
	32		KWB9L-63M-2-B32/300	KWB9L-63M-2-C32/300	KWB9L-63M-2-D32/300	
	40		KWB9L-63M-2-B40/300	KWB9L-63M-2-C40/300	KWB9L-63M-2-D40/300	
	50		KWB9L-63M-2-B50/300	KWB9L-63M-2-C50/300	KWB9L-63M-2-D50/300	
	63		KWB9L-63M-2-B63/300	KWB9L-63M-2-C63/300	KWB9L-63M-2-D63/300	

KWB9L-63M Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type AC 			Packing unit
			B curve	C curve	D curve	
 Type AC 	6	10mA	KWB9L-63M-3-B6/10	KWB9L-63M-3-C6/10	KWB9L-63M-3-D6/10	1
	10		KWB9L-63M-3-B10/10	KWB9L-63M-3-C10/10	KWB9L-63M-3-D10/10	
	16		KWB9L-63M-3-B16/10	KWB9L-63M-3-C16/10	KWB9L-63M-3-D16/10	
	20		KWB9L-63M-3-B20/10	KWB9L-63M-3-C20/10	KWB9L-63M-3-D20/10	
	25		KWB9L-63M-3-B25/10	KWB9L-63M-3-C25/10	KWB9L-63M-3-D25/10	
	32		KWB9L-63M-3-B32/10	KWB9L-63M-3-C32/10	KWB9L-63M-3-D32/10	
	40		KWB9L-63M-3-B40/10	KWB9L-63M-3-C40/10	KWB9L-63M-3-D40/10	
	50		KWB9L-63M-3-B50/10	KWB9L-63M-3-C50/10	KWB9L-63M-3-D50/10	
	63		KWB9L-63M-3-B63/10	KWB9L-63M-3-C63/10	KWB9L-63M-3-D63/10	
	6	30mA	KWB9L-63M-3-B6/30	KWB9L-63M-3-C6/30	KWB9L-63M-3-D6/30	
	10		KWB9L-63M-3-B10/30	KWB9L-63M-3-C10/30	KWB9L-63M-3-D10/30	
	16		KWB9L-63M-3-B16/30	KWB9L-63M-3-C16/30	KWB9L-63M-3-D16/30	
	20		KWB9L-63M-3-B20/30	KWB9L-63M-3-C20/30	KWB9L-63M-3-D20/30	
	25		KWB9L-63M-3-B25/30	KWB9L-63M-3-C25/30	KWB9L-63M-3-D25/30	
	32		KWB9L-63M-3-B32/30	KWB9L-63M-3-C32/30	KWB9L-63M-3-D32/30	
	40		KWB9L-63M-3-B40/30	KWB9L-63M-3-C40/30	KWB9L-63M-3-D40/30	
	50		KWB9L-63M-3-B50/30	KWB9L-63M-3-C50/30	KWB9L-63M-3-D50/30	
	63		KWB9L-63M-3-B63/30	KWB9L-63M-3-C63/30	KWB9L-63M-3-D63/30	
	6	100mA	KWB9L-63M-3-B6/100	KWB9L-63M-3-C6/100	KWB9L-63M-3-D6/100	
	10		KWB9L-63M-3-B10/100	KWB9L-63M-3-C10/100	KWB9L-63M-3-D10/100	
	16		KWB9L-63M-3-B16/100	KWB9L-63M-3-C16/100	KWB9L-63M-3-D16/100	
	20		KWB9L-63M-3-B20/100	KWB9L-63M-3-C20/100	KWB9L-63M-3-D20/100	
	25		KWB9L-63M-3-B25/100	KWB9L-63M-3-C25/100	KWB9L-63M-3-D25/100	
	32		KWB9L-63M-3-B32/100	KWB9L-63M-3-C32/100	KWB9L-63M-3-D32/100	
	40		KWB9L-63M-3-B40/100	KWB9L-63M-3-C40/100	KWB9L-63M-3-D40/100	
	50		KWB9L-63M-3-B50/100	KWB9L-63M-3-C50/100	KWB9L-63M-3-D50/100	
	63		KWB9L-63M-3-B63/100	KWB9L-63M-3-C63/100	KWB9L-63M-3-D63/100	
	6	300mA	KWB9L-63M-3-B6/300	KWB9L-63M-3-C6/300	KWB9L-63M-3-D6/300	
	10		KWB9L-63M-3-B10/300	KWB9L-63M-3-C10/300	KWB9L-63M-3-D10/300	
	16		KWB9L-63M-3-B16/300	KWB9L-63M-3-C16/300	KWB9L-63M-3-D16/300	
	20		KWB9L-63M-3-B20/300	KWB9L-63M-3-C20/300	KWB9L-63M-3-D20/300	
	25		KWB9L-63M-3-B25/300	KWB9L-63M-3-C25/300	KWB9L-63M-3-D25/300	
	32		KWB9L-63M-3-B32/300	KWB9L-63M-3-C32/300	KWB9L-63M-3-D32/300	
	40		KWB9L-63M-3-B40/300	KWB9L-63M-3-C40/300	KWB9L-63M-3-D40/300	
	50		KWB9L-63M-3-B50/300	KWB9L-63M-3-C50/300	KWB9L-63M-3-D50/300	
	63		KWB9L-63M-3-B63/300	KWB9L-63M-3-C63/300	KWB9L-63M-3-D63/300	

KWB9L-63M Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	I Δ n	Type AC 			Packing unit
			B curve	C curve	D curve	
 Type AC 	6	10mA	KWB9L-63M-3-B6N/10	KWB9L-63M-3-C6N/10	KWB9L-63M-3-D6N/10	1
	10		KWB9L-63M-3-B10N/10	KWB9L-63M-3-C10N/10	KWB9L-63M-3-D10N/10	
	16		KWB9L-63M-3-B16N/10	KWB9L-63M-3-C16N/10	KWB9L-63M-3-D16N/10	
	20		KWB9L-63M-3-B20N/10	KWB9L-63M-3-C20N/10	KWB9L-63M-3-D20N/10	
	25		KWB9L-63M-3-B25N/10	KWB9L-63M-3-C25N/10	KWB9L-63M-3-D25N/10	
	32		KWB9L-63M-3-B32N/10	KWB9L-63M-3-C32N/10	KWB9L-63M-3-D32N/10	
	40		KWB9L-63M-3-B40N/10	KWB9L-63M-3-C40N/10	KWB9L-63M-3-D40N/10	
	50		KWB9L-63M-3-B50N/10	KWB9L-63M-3-C50N/10	KWB9L-63M-3-D50N/10	
	63		KWB9L-63M-3-B63N/10	KWB9L-63M-3-C63N/10	KWB9L-63M-3-D63N/10	
	6	30mA	KWB9L-63M-3-B6N/30	KWB9L-63M-3-C6N/30	KWB9L-63M-3-D6N/30	
	10		KWB9L-63M-3-B10N/30	KWB9L-63M-3-C10N/30	KWB9L-63M-3-D10N/30	
	16		KWB9L-63M-3-B16N/30	KWB9L-63M-3-C16N/30	KWB9L-63M-3-D16N/30	
	20		KWB9L-63M-3-B20N/30	KWB9L-63M-3-C20N/30	KWB9L-63M-3-D20N/30	
	25		KWB9L-63M-3-B25N/30	KWB9L-63M-3-C25N/30	KWB9L-63M-3-D25N/30	
	32		KWB9L-63M-3-B32N/30	KWB9L-63M-3-C32N/30	KWB9L-63M-3-D32N/30	
	40		KWB9L-63M-3-B40N/30	KWB9L-63M-3-C40N/30	KWB9L-63M-3-D40N/30	
	50		KWB9L-63M-3-B50N/30	KWB9L-63M-3-C50N/30	KWB9L-63M-3-D50N/30	
	63		KWB9L-63M-3-B63N/30	KWB9L-63M-3-C63N/30	KWB9L-63M-3-D63N/30	
	6	100mA	KWB9L-63M-3-B6N/100	KWB9L-63M-3-C6N/100	KWB9L-63M-3-D6N/100	
	10		KWB9L-63M-3-B10N/100	KWB9L-63M-3-C10N/100	KWB9L-63M-3-D10N/100	
	16		KWB9L-63M-3-B16N/100	KWB9L-63M-3-C16N/100	KWB9L-63M-3-D16N/100	
	20		KWB9L-63M-3-B20N/100	KWB9L-63M-3-C20N/100	KWB9L-63M-3-D20N/100	
	25		KWB9L-63M-3-B25N/100	KWB9L-63M-3-C25N/100	KWB9L-63M-3-D25N/100	
	32		KWB9L-63M-3-B32N/100	KWB9L-63M-3-C32N/100	KWB9L-63M-3-D32N/100	
	40		KWB9L-63M-3-B40N/100	KWB9L-63M-3-C40N/100	KWB9L-63M-3-D40N/100	
	50		KWB9L-63M-3-B50N/100	KWB9L-63M-3-C50N/100	KWB9L-63M-3-D50N/100	
	63		KWB9L-63M-3-B63N/100	KWB9L-63M-3-C63N/100	KWB9L-63M-3-D63N/100	
	6	300mA	KWB9L-63M-3-B6N/300	KWB9L-63M-3-C6N/300	KWB9L-63M-3-D6N/300	
	10		KWB9L-63M-3-B10N/300	KWB9L-63M-3-C10N/300	KWB9L-63M-3-D10N/300	
	16		KWB9L-63M-3-B16N/300	KWB9L-63M-3-C16N/300	KWB9L-63M-3-D16N/300	
	20		KWB9L-63M-3-B20N/300	KWB9L-63M-3-C20N/300	KWB9L-63M-3-D20N/300	
	25		KWB9L-63M-3-B25N/300	KWB9L-63M-3-C25N/300	KWB9L-63M-3-D25N/300	
	32		KWB9L-63M-3-B32N/300	KWB9L-63M-3-C32N/300	KWB9L-63M-3-D32N/300	
	40		KWB9L-63M-3-B40N/300	KWB9L-63M-3-C40N/300	KWB9L-63M-3-D40N/300	
	50		KWB9L-63M-3-B50N/300	KWB9L-63M-3-C50N/300	KWB9L-63M-3-D50N/300	
	63		KWB9L-63M-3-B63N/300	KWB9L-63M-3-C63N/300	KWB9L-63M-3-D63N/300	

KWB9L-63M Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type AC 			Packing unit
			B curve	C curve	D curve	
 Type AC 	6	10mA	KWB9L-63M-4-B6/10	KWB9L-63M-4-C6/10	KWB9L-63M-4-D6/10	1
	10		KWB9L-63M-4-B10/10	KWB9L-63M-4-C10/10	KWB9L-63M-4-D10/10	
	16		KWB9L-63M-4-B16/10	KWB9L-63M-4-C16/10	KWB9L-63M-4-D16/10	
	20		KWB9L-63M-4-B20/10	KWB9L-63M-4-C20/10	KWB9L-63M-4-D20/10	
	25		KWB9L-63M-4-B25/10	KWB9L-63M-4-C25/10	KWB9L-63M-4-D25/10	
	32		KWB9L-63M-4-B32/10	KWB9L-63M-4-C32/10	KWB9L-63M-4-D32/10	
	40		KWB9L-63M-4-B40/10	KWB9L-63M-4-C40/10	KWB9L-63M-4-D40/10	
	50		KWB9L-63M-4-B50/10	KWB9L-63M-4-C50/10	KWB9L-63M-4-D50/10	
	63		KWB9L-63M-4-B63/10	KWB9L-63M-4-C63/10	KWB9L-63M-4-D63/10	
	6	30mA	KWB9L-63M-4-B6/30	KWB9L-63M-4-C6/30	KWB9L-63M-4-D6/30	
	10		KWB9L-63M-4-B10/30	KWB9L-63M-4-C10/30	KWB9L-63M-4-D10/30	
	16		KWB9L-63M-4-B16/30	KWB9L-63M-4-C16/30	KWB9L-63M-4-D16/30	
	20		KWB9L-63M-4-B20/30	KWB9L-63M-4-C20/30	KWB9L-63M-4-D20/30	
	25		KWB9L-63M-4-B25/30	KWB9L-63M-4-C25/30	KWB9L-63M-4-D25/30	
	32		KWB9L-63M-4-B32/30	KWB9L-63M-4-C32/30	KWB9L-63M-4-D32/30	
	40		KWB9L-63M-4-B40/30	KWB9L-63M-4-C40/30	KWB9L-63M-4-D40/30	
	50		KWB9L-63M-4-B50/30	KWB9L-63M-4-C50/30	KWB9L-63M-4-D50/30	
	63		KWB9L-63M-4-B63/30	KWB9L-63M-4-C63/30	KWB9L-63M-4-D63/30	
	6	100mA	KWB9L-63M-4-B6/100	KWB9L-63M-4-C6/100	KWB9L-63M-4-D6/100	
	10		KWB9L-63M-4-B10/100	KWB9L-63M-4-C10/100	KWB9L-63M-4-D10/100	
	16		KWB9L-63M-4-B16/100	KWB9L-63M-4-C16/100	KWB9L-63M-4-D16/100	
	20		KWB9L-63M-4-B20/100	KWB9L-63M-4-C20/100	KWB9L-63M-4-D20/100	
	25		KWB9L-63M-4-B25/100	KWB9L-63M-4-C25/100	KWB9L-63M-4-D25/100	
	32		KWB9L-63M-4-B32/100	KWB9L-63M-4-C32/100	KWB9L-63M-4-D32/100	
	40		KWB9L-63M-4-B40/100	KWB9L-63M-4-C40/100	KWB9L-63M-4-D40/100	
	50		KWB9L-63M-4-B50/100	KWB9L-63M-4-C50/100	KWB9L-63M-4-D50/100	
	63		KWB9L-63M-4-B63/100	KWB9L-63M-4-C63/100	KWB9L-63M-4-D63/100	
	6	300mA	KWB9L-63M-4-B6/300	KWB9L-63M-4-C6/300	KWB9L-63M-4-D6/300	
	10		KWB9L-63M-4-B10/300	KWB9L-63M-4-C10/300	KWB9L-63M-4-D10/300	
	16		KWB9L-63M-4-B16/300	KWB9L-63M-4-C16/300	KWB9L-63M-4-D16/300	
	20		KWB9L-63M-4-B20/300	KWB9L-63M-4-C20/300	KWB9L-63M-4-D20/300	
	25		KWB9L-63M-4-B25/300	KWB9L-63M-4-C25/300	KWB9L-63M-4-D25/300	
	32		KWB9L-63M-4-B32/300	KWB9L-63M-4-C32/300	KWB9L-63M-4-D32/300	
	40		KWB9L-63M-4-B40/300	KWB9L-63M-4-C40/300	KWB9L-63M-4-D40/300	
	50		KWB9L-63M-4-B50/300	KWB9L-63M-4-C50/300	KWB9L-63M-4-D50/300	
	63		KWB9L-63M-4-B63/300	KWB9L-63M-4-C63/300	KWB9L-63M-4-D63/300	

KWB9L-63M Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	I Δ n	Type A 			Packing unit
			B curve	C curve	D curve	
 Type A 	6	10mA	KWB9L-63M-1-B6N/10-A	KWB9L-63M-1-C6N/10-A	KWB9L-63M-1-D6N/10-A	1
	10		KWB9L-63M-1-B10N/10-A	KWB9L-63M-1-C10N/10-A	KWB9L-63M-1-D10N/10-A	
	16		KWB9L-63M-1-B16N/10-A	KWB9L-63M-1-C16N/10-A	KWB9L-63M-1-D16N/10-A	
	20		KWB9L-63M-1-B20N/10-A	KWB9L-63M-1-C20N/10-A	KWB9L-63M-1-D20N/10-A	
	25		KWB9L-63M-1-B25N/10-A	KWB9L-63M-1-C25N/10-A	KWB9L-63M-1-D25N/10-A	
	32		KWB9L-63M-1-B32N/10-A	KWB9L-63M-1-C32N/10-A	KWB9L-63M-1-D32N/10-A	
	40		KWB9L-63M-1-B40N/10-A	KWB9L-63M-1-C40N/10-A	KWB9L-63M-1-D40N/10-A	
	50		KWB9L-63M-1-B50N/10-A	KWB9L-63M-1-C50N/10-A	KWB9L-63M-1-D50N/10-A	
	63		KWB9L-63M-1-B63N/10-A	KWB9L-63M-1-C63N/10-A	KWB9L-63M-1-D63N/10-A	
	6	30mA	KWB9L-63M-1-B6N/30-A	KWB9L-63M-1-C6N/30-A	KWB9L-63M-1-D6N/30-A	
	10		KWB9L-63M-1-B10N/30-A	KWB9L-63M-1-C10N/30-A	KWB9L-63M-1-D10N/30-A	
	16		KWB9L-63M-1-B16N/30-A	KWB9L-63M-1-C16N/30-A	KWB9L-63M-1-D16N/30-A	
	20		KWB9L-63M-1-B20N/30-A	KWB9L-63M-1-C20N/30-A	KWB9L-63M-1-D20N/30-A	
	25		KWB9L-63M-1-B25N/30-A	KWB9L-63M-1-C25N/30-A	KWB9L-63M-1-D25N/30-A	
	32		KWB9L-63M-1-B32N/30-A	KWB9L-63M-1-C32N/30-A	KWB9L-63M-1-D32N/30-A	
	40		KWB9L-63M-1-B40N/30-A	KWB9L-63M-1-C40N/30-A	KWB9L-63M-1-D40N/30-A	
	50		KWB9L-63M-1-B50N/30-A	KWB9L-63M-1-C50N/30-A	KWB9L-63M-1-D50N/30-A	
	63		KWB9L-63M-1-B63N/30-A	KWB9L-63M-1-C63N/30-A	KWB9L-63M-1-D63N/30-A	
	6	100mA	KWB9L-63M-1-B6N/100-A	KWB9L-63M-1-C6N/100-A	KWB9L-63M-1-D6N/100-A	
	10		KWB9L-63M-1-B10N/100-A	KWB9L-63M-1-C10N/100-A	KWB9L-63M-1-D10N/100-A	
	16		KWB9L-63M-1-B16N/100-A	KWB9L-63M-1-C16N/100-A	KWB9L-63M-1-D16N/100-A	
	20		KWB9L-63M-1-B20N/100-A	KWB9L-63M-1-C20N/100-A	KWB9L-63M-1-D20N/100-A	
	25		KWB9L-63M-1-B25N/100-A	KWB9L-63M-1-C25N/100-A	KWB9L-63M-1-D25N/100-A	
	32		KWB9L-63M-1-B32N/100-A	KWB9L-63M-1-C32N/100-A	KWB9L-63M-1-D32N/100-A	
	40		KWB9L-63M-1-B40N/100-A	KWB9L-63M-1-C40N/100-A	KWB9L-63M-1-D40N/100-A	
	50		KWB9L-63M-1-B50N/100-A	KWB9L-63M-1-C50N/100-A	KWB9L-63M-1-D50N/100-A	
	63		KWB9L-63M-1-B63N/100-A	KWB9L-63M-1-C63N/100-A	KWB9L-63M-1-D63N/100-A	
	6	300mA	KWB9L-63M-1-B6N/300-A	KWB9L-63M-1-C6N/300-A	KWB9L-63M-1-D6N/300-A	
	10		KWB9L-63M-1-B10N/300-A	KWB9L-63M-1-C10N/300-A	KWB9L-63M-1-D10N/300-A	
	16		KWB9L-63M-1-B16N/300-A	KWB9L-63M-1-C16N/300-A	KWB9L-63M-1-D16N/300-A	
	20		KWB9L-63M-1-B20N/300-A	KWB9L-63M-1-C20N/300-A	KWB9L-63M-1-D20N/300-A	
	25		KWB9L-63M-1-B25N/300-A	KWB9L-63M-1-C25N/300-A	KWB9L-63M-1-D25N/300-A	
	32		KWB9L-63M-1-B32N/300-A	KWB9L-63M-1-C32N/300-A	KWB9L-63M-1-D32N/300-A	
	40		KWB9L-63M-1-B40N/300-A	KWB9L-63M-1-C40N/300-A	KWB9L-63M-1-D40N/300-A	
	50		KWB9L-63M-1-B50N/300-A	KWB9L-63M-1-C50N/300-A	KWB9L-63M-1-D50N/300-A	
	63		KWB9L-63M-1-B63N/300-A	KWB9L-63M-1-C63N/300-A	KWB9L-63M-1-D63N/300-A	

KWB9L-63M Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	I Δ n	Type A 			Packing unit
			B curve	C curve	D curve	
 Type A 	6	10mA	KWB9L-63M-2-B6/10-A	KWB9L-63M-2-C6/10-A	KWB9L-63M-2-D6/10-A	1
	10		KWB9L-63M-2-B10/10-A	KWB9L-63M-2-C10/10-A	KWB9L-63M-2-D10/10-A	
	16		KWB9L-63M-2-B16/10-A	KWB9L-63M-2-C16/10-A	KWB9L-63M-2-D16/10-A	
	20		KWB9L-63M-2-B20/10-A	KWB9L-63M-2-C20/10-A	KWB9L-63M-2-D20/10-A	
	25		KWB9L-63M-2-B25/10-A	KWB9L-63M-2-C25/10-A	KWB9L-63M-2-D25/10-A	
	32		KWB9L-63M-2-B32/10-A	KWB9L-63M-2-C32/10-A	KWB9L-63M-2-D32/10-A	
	40		KWB9L-63M-2-B40/10-A	KWB9L-63M-2-C40/10-A	KWB9L-63M-2-D40/10-A	
	50		KWB9L-63M-2-B50/10-A	KWB9L-63M-2-C50/10-A	KWB9L-63M-2-D50/10-A	
	63		KWB9L-63M-2-B63/10-A	KWB9L-63M-2-C63/10-A	KWB9L-63M-2-D63/10-A	
	6	30mA	KWB9L-63M-2-B6/30-A	KWB9L-63M-2-C6/30-A	KWB9L-63M-2-D6/30-A	
	10		KWB9L-63M-2-B10/30-A	KWB9L-63M-2-C10/30-A	KWB9L-63M-2-D10/30-A	
	16		KWB9L-63M-2-B16/30-A	KWB9L-63M-2-C16/30-A	KWB9L-63M-2-D16/30-A	
	20		KWB9L-63M-2-B20/30-A	KWB9L-63M-2-C20/30-A	KWB9L-63M-2-D20/30-A	
	25		KWB9L-63M-2-B25/30-A	KWB9L-63M-2-C25/30-A	KWB9L-63M-2-D25/30-A	
	32		KWB9L-63M-2-B32/30-A	KWB9L-63M-2-C32/30-A	KWB9L-63M-2-D32/30-A	
	40		KWB9L-63M-2-B40/30-A	KWB9L-63M-2-C40/30-A	KWB9L-63M-2-D40/30-A	
	50		KWB9L-63M-2-B50/30-A	KWB9L-63M-2-C50/30-A	KWB9L-63M-2-D50/30-A	
	63		KWB9L-63M-2-B63/30-A	KWB9L-63M-2-C63/30-A	KWB9L-63M-2-D63/30-A	
	6	100mA	KWB9L-63M-2-B6/100-A	KWB9L-63M-2-C6/100-A	KWB9L-63M-2-D6/100-A	
	10		KWB9L-63M-2-B10/100-A	KWB9L-63M-2-C10/100-A	KWB9L-63M-2-D10/100-A	
	16		KWB9L-63M-2-B16/100-A	KWB9L-63M-2-C16/100-A	KWB9L-63M-2-D16/100-A	
	20		KWB9L-63M-2-B20/100-A	KWB9L-63M-2-C20/100-A	KWB9L-63M-2-D20/100-A	
	25		KWB9L-63M-2-B25/100-A	KWB9L-63M-2-C25/100-A	KWB9L-63M-2-D25/100-A	
	32		KWB9L-63M-2-B32/100-A	KWB9L-63M-2-C32/100-A	KWB9L-63M-2-D32/100-A	
	40		KWB9L-63M-2-B40/100-A	KWB9L-63M-2-C40/100-A	KWB9L-63M-2-D40/100-A	
	50		KWB9L-63M-2-B50/100-A	KWB9L-63M-2-C50/100-A	KWB9L-63M-2-D50/100-A	
	63		KWB9L-63M-2-B63/100-A	KWB9L-63M-2-C63/100-A	KWB9L-63M-2-D63/100-A	
	6	300mA	KWB9L-63M-2-B6/300-A	KWB9L-63M-2-C6/300-A	KWB9L-63M-2-D6/300-A	
	10		KWB9L-63M-2-B10/300-A	KWB9L-63M-2-C10/300-A	KWB9L-63M-2-D10/300-A	
	16		KWB9L-63M-2-B16/300-A	KWB9L-63M-2-C16/300-A	KWB9L-63M-2-D16/300-A	
	20		KWB9L-63M-2-B20/300-A	KWB9L-63M-2-C20/300-A	KWB9L-63M-2-D20/300-A	
	25		KWB9L-63M-2-B25/300-A	KWB9L-63M-2-C25/300-A	KWB9L-63M-2-D25/300-A	
	32		KWB9L-63M-2-B32/300-A	KWB9L-63M-2-C32/300-A	KWB9L-63M-2-D32/300-A	
	40		KWB9L-63M-2-B40/300-A	KWB9L-63M-2-C40/300-A	KWB9L-63M-2-D40/300-A	
	50		KWB9L-63M-2-B50/300-A	KWB9L-63M-2-C50/300-A	KWB9L-63M-2-D50/300-A	
	63		KWB9L-63M-2-B63/300-A	KWB9L-63M-2-C63/300-A	KWB9L-63M-2-D63/300-A	

KWB9L-63M Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	I Δ n	Type A 			Packing unit
			B curve	C curve	D curve	
 Type A 	6	10mA	KWB9L-63M-3-B6/10-A	KWB9L-63M-3-C6/10-A	KWB9L-63M-3-D6/10-A	1
	10		KWB9L-63M-3-B10/10-A	KWB9L-63M-3-C10/10-A	KWB9L-63M-3-D10/10-A	
	16		KWB9L-63M-3-B16/10-A	KWB9L-63M-3-C16/10-A	KWB9L-63M-3-D16/10-A	
	20		KWB9L-63M-3-B20/10-A	KWB9L-63M-3-C20/10-A	KWB9L-63M-3-D20/10-A	
	25		KWB9L-63M-3-B25/10-A	KWB9L-63M-3-C25/10-A	KWB9L-63M-3-D25/10-A	
	32		KWB9L-63M-3-B32/10-A	KWB9L-63M-3-C32/10-A	KWB9L-63M-3-D32/10-A	
	40		KWB9L-63M-3-B40/10-A	KWB9L-63M-3-C40/10-A	KWB9L-63M-3-D40/10-A	
	50		KWB9L-63M-3-B50/10-A	KWB9L-63M-3-C50/10-A	KWB9L-63M-3-D50/10-A	
	63		KWB9L-63M-3-B63/10-A	KWB9L-63M-3-C63/10-A	KWB9L-63M-3-D63/10-A	
	6	30mA	KWB9L-63M-3-B6/30-A	KWB9L-63M-3-C6/30-A	KWB9L-63M-3-D6/30-A	
	10		KWB9L-63M-3-B10/30-A	KWB9L-63M-3-C10/30-A	KWB9L-63M-3-D10/30-A	
	16		KWB9L-63M-3-B16/30-A	KWB9L-63M-3-C16/30-A	KWB9L-63M-3-D16/30-A	
	20		KWB9L-63M-3-B20/30-A	KWB9L-63M-3-C20/30-A	KWB9L-63M-3-D20/30-A	
	25		KWB9L-63M-3-B25/30-A	KWB9L-63M-3-C25/30-A	KWB9L-63M-3-D25/30-A	
	32		KWB9L-63M-3-B32/30-A	KWB9L-63M-3-C32/30-A	KWB9L-63M-3-D32/30-A	
	40		KWB9L-63M-3-B40/30-A	KWB9L-63M-3-C40/30-A	KWB9L-63M-3-D40/30-A	
	50		KWB9L-63M-3-B50/30-A	KWB9L-63M-3-C50/30-A	KWB9L-63M-3-D50/30-A	
	63		KWB9L-63M-3-B63/30-A	KWB9L-63M-3-C63/30-A	KWB9L-63M-3-D63/30-A	
	6	100mA	KWB9L-63M-3-B6/100-A	KWB9L-63M-3-C6/100-A	KWB9L-63M-3-D6/100-A	
	10		KWB9L-63M-3-B10/100-A	KWB9L-63M-3-C10/100-A	KWB9L-63M-3-D10/100-A	
	16		KWB9L-63M-3-B16/100-A	KWB9L-63M-3-C16/100-A	KWB9L-63M-3-D16/100-A	
	20		KWB9L-63M-3-B20/100-A	KWB9L-63M-3-C20/100-A	KWB9L-63M-3-D20/100-A	
	25		KWB9L-63M-3-B25/100-A	KWB9L-63M-3-C25/100-A	KWB9L-63M-3-D25/100-A	
	32		KWB9L-63M-3-B32/100-A	KWB9L-63M-3-C32/100-A	KWB9L-63M-3-D32/100-A	
	40		KWB9L-63M-3-B40/100-A	KWB9L-63M-3-C40/100-A	KWB9L-63M-3-D40/100-A	
	50		KWB9L-63M-3-B50/100-A	KWB9L-63M-3-C50/100-A	KWB9L-63M-3-D50/100-A	
	63		KWB9L-63M-3-B63/100-A	KWB9L-63M-3-C63/100-A	KWB9L-63M-3-D63/100-A	
	6	300mA	KWB9L-63M-3-B6/300-A	KWB9L-63M-3-C6/300-A	KWB9L-63M-3-D6/300-A	
	10		KWB9L-63M-3-B10/300-A	KWB9L-63M-3-C10/300-A	KWB9L-63M-3-D10/300-A	
	16		KWB9L-63M-3-B16/300-A	KWB9L-63M-3-C16/300-A	KWB9L-63M-3-D16/300-A	
	20		KWB9L-63M-3-B20/300-A	KWB9L-63M-3-C20/300-A	KWB9L-63M-3-D20/300-A	
	25		KWB9L-63M-3-B25/300-A	KWB9L-63M-3-C25/300-A	KWB9L-63M-3-D25/300-A	
	32		KWB9L-63M-3-B32/300-A	KWB9L-63M-3-C32/300-A	KWB9L-63M-3-D32/300-A	
	40		KWB9L-63M-3-B40/300-A	KWB9L-63M-3-C40/300-A	KWB9L-63M-3-D40/300-A	
	50		KWB9L-63M-3-B50/300-A	KWB9L-63M-3-C50/300-A	KWB9L-63M-3-D50/300-A	
	63		KWB9L-63M-3-B63/300-A	KWB9L-63M-3-C63/300-A	KWB9L-63M-3-D63/300-A	

KWB9L-63M Series Residual Current Circuit Breakers with Overcurrent Protection

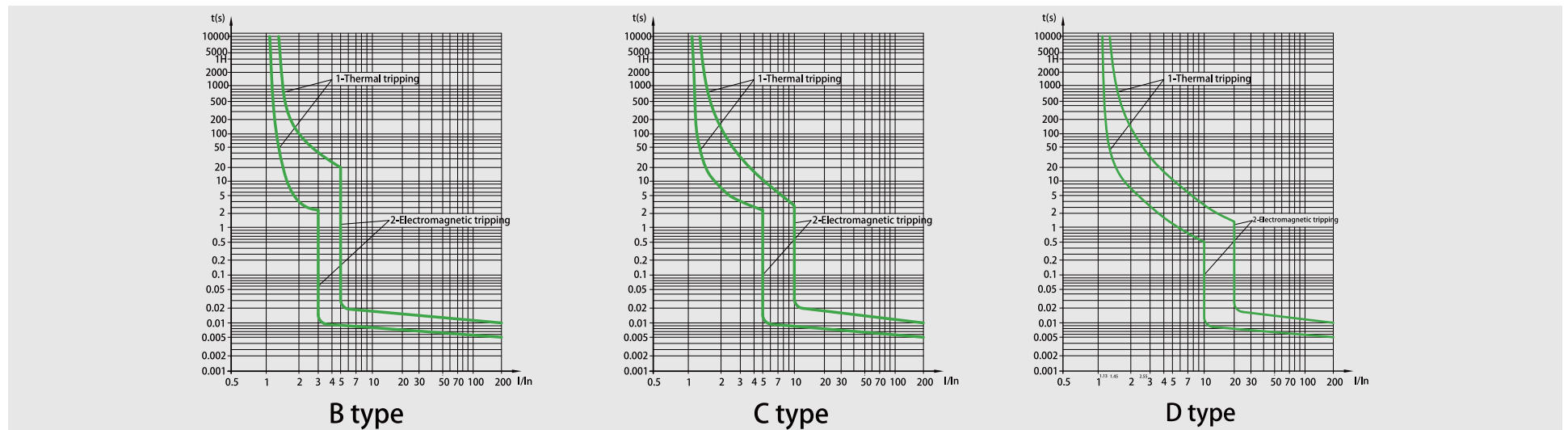
	Rated current(A)	I Δ n	Type A 			Packing unit
			B curve	C curve	D curve	
 Type A 	6	10mA	KWB9L-63M-3-B6N/10-A	KWB9L-63M-3-C6N/10-A	KWB9L-63M-3-D6N/10-A	1
	10		KWB9L-63M-3-B10N/10-A	KWB9L-63M-3-C10N/10-A	KWB9L-63M-3-D10N/10-A	
	16		KWB9L-63M-3-B16N/10-A	KWB9L-63M-3-C16N/10-A	KWB9L-63M-3-D16N/10-A	
	20		KWB9L-63M-3-B20N/10-A	KWB9L-63M-3-C20N/10-A	KWB9L-63M-3-D20N/10-A	
	25		KWB9L-63M-3-B25N/10-A	KWB9L-63M-3-C25N/10-A	KWB9L-63M-3-D25N/10-A	
	32		KWB9L-63M-3-B32N/10-A	KWB9L-63M-3-C32N/10-A	KWB9L-63M-3-D32N/10-A	
	40		KWB9L-63M-3-B40N/10-A	KWB9L-63M-3-C40N/10-A	KWB9L-63M-3-D40N/10-A	
	50		KWB9L-63M-3-B50N/10-A	KWB9L-63M-3-C50N/10-A	KWB9L-63M-3-D50N/10-A	
	63		KWB9L-63M-3-B63N/10-A	KWB9L-63M-3-C63N/10-A	KWB9L-63M-3-D63N/10-A	
	6	30mA	KWB9L-63M-3-B6N/30-A	KWB9L-63M-3-C6N/30-A	KWB9L-63M-3-D6N/30-A	
	10		KWB9L-63M-3-B10N/30-A	KWB9L-63M-3-C10N/30-A	KWB9L-63M-3-D10N/30-A	
	16		KWB9L-63M-3-B16N/30-A	KWB9L-63M-3-C16N/30-A	KWB9L-63M-3-D16N/30-A	
	20		KWB9L-63M-3-B20N/30-A	KWB9L-63M-3-C20N/30-A	KWB9L-63M-3-D20N/30-A	
	25		KWB9L-63M-3-B25N/30-A	KWB9L-63M-3-C25N/30-A	KWB9L-63M-3-D25N/30-A	
	32		KWB9L-63M-3-B32N/30-A	KWB9L-63M-3-C32N/30-A	KWB9L-63M-3-D32N/30-A	
	40		KWB9L-63M-3-B40N/30-A	KWB9L-63M-3-C40N/30-A	KWB9L-63M-3-D40N/30-A	
	50		KWB9L-63M-3-B50N/30-A	KWB9L-63M-3-C50N/30-A	KWB9L-63M-3-D50N/30-A	
	63		KWB9L-63M-3-B63N/30-A	KWB9L-63M-3-C63N/30-A	KWB9L-63M-3-D63N/30-A	
	6	100mA	KWB9L-63M-3-B6N/100-A	KWB9L-63M-3-C6N/100-A	KWB9L-63M-3-D6N/100-A	
	10		KWB9L-63M-3-B10N/100-A	KWB9L-63M-3-C10N/100-A	KWB9L-63M-3-D10N/100-A	
	16		KWB9L-63M-3-B16N/100-A	KWB9L-63M-3-C16N/100-A	KWB9L-63M-3-D16N/100-A	
	20		KWB9L-63M-3-B20N/100-A	KWB9L-63M-3-C20N/100-A	KWB9L-63M-3-D20N/100-A	
	25		KWB9L-63M-3-B25N/100-A	KWB9L-63M-3-C25N/100-A	KWB9L-63M-3-D25N/100-A	
	32		KWB9L-63M-3-B32N/100-A	KWB9L-63M-3-C32N/100-A	KWB9L-63M-3-D32N/100-A	
	40		KWB9L-63M-3-B40N/100-A	KWB9L-63M-3-C40N/100-A	KWB9L-63M-3-D40N/100-A	
	50		KWB9L-63M-3-B50N/100-A	KWB9L-63M-3-C50N/100-A	KWB9L-63M-3-D50N/100-A	
	63		KWB9L-63M-3-B63N/100-A	KWB9L-63M-3-C63N/100-A	KWB9L-63M-3-D63N/100-A	
	6	300mA	KWB9L-63M-3-B6N/300-A	KWB9L-63M-3-C6N/300-A	KWB9L-63M-3-D6N/300-A	
	10		KWB9L-63M-3-B10N/300-A	KWB9L-63M-3-C10N/300-A	KWB9L-63M-3-D10N/300-A	
	16		KWB9L-63M-3-B16N/300-A	KWB9L-63M-3-C16N/300-A	KWB9L-63M-3-D16N/300-A	
	20		KWB9L-63M-3-B20N/300-A	KWB9L-63M-3-C20N/300-A	KWB9L-63M-3-D20N/300-A	
	25		KWB9L-63M-3-B25N/300-A	KWB9L-63M-3-C25N/300-A	KWB9L-63M-3-D25N/300-A	
	32		KWB9L-63M-3-B32N/300-A	KWB9L-63M-3-C32N/300-A	KWB9L-63M-3-D32N/300-A	
	40		KWB9L-63M-3-B40N/300-A	KWB9L-63M-3-C40N/300-A	KWB9L-63M-3-D40N/300-A	
	50		KWB9L-63M-3-B50N/300-A	KWB9L-63M-3-C50N/300-A	KWB9L-63M-3-D50N/300-A	
	63		KWB9L-63M-3-B63N/300-A	KWB9L-63M-3-C63N/300-A	KWB9L-63M-3-D63N/300-A	

KWB9L-63M Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	I _{Δn}	Type A 			Packing unit
			B curve	C curve	D curve	
 Type A 	6	10mA	KWB9L-63M-4-B6/10-A	KWB9L-63M-4-C6/10-A	KWB9L-63M-4-D6/10-A	1
	10		KWB9L-63M-4-B10/10-A	KWB9L-63M-4-C10/10-A	KWB9L-63M-4-D10/10-A	
	16		KWB9L-63M-4-B16/10-A	KWB9L-63M-4-C16/10-A	KWB9L-63M-4-D16/10-A	
	20		KWB9L-63M-4-B20/10-A	KWB9L-63M-4-C20/10-A	KWB9L-63M-4-D20/10-A	
	25		KWB9L-63M-4-B25/10-A	KWB9L-63M-4-C25/10-A	KWB9L-63M-4-D25/10-A	
	32		KWB9L-63M-4-B32/10-A	KWB9L-63M-4-C32/10-A	KWB9L-63M-4-D32/10-A	
	40		KWB9L-63M-4-B40/10-A	KWB9L-63M-4-C40/10-A	KWB9L-63M-4-D40/10-A	
	50		KWB9L-63M-4-B50/10-A	KWB9L-63M-4-C50/10-A	KWB9L-63M-4-D50/10-A	
	63		KWB9L-63M-4-B63/10-A	KWB9L-63M-4-C63/10-A	KWB9L-63M-4-D63/10-A	
	6	30mA	KWB9L-63M-4-B6/30-A	KWB9L-63M-4-C6/30-A	KWB9L-63M-4-D6/30-A	
	10		KWB9L-63M-4-B10/30-A	KWB9L-63M-4-C10/30-A	KWB9L-63M-4-D10/30-A	
	16		KWB9L-63M-4-B16/30-A	KWB9L-63M-4-C16/30-A	KWB9L-63M-4-D16/30-A	
	20		KWB9L-63M-4-B20/30-A	KWB9L-63M-4-C20/30-A	KWB9L-63M-4-D20/30-A	
	25		KWB9L-63M-4-B25/30-A	KWB9L-63M-4-C25/30-A	KWB9L-63M-4-D25/30-A	
	32		KWB9L-63M-4-B32/30-A	KWB9L-63M-4-C32/30-A	KWB9L-63M-4-D32/30-A	
	40		KWB9L-63M-4-B40/30-A	KWB9L-63M-4-C40/30-A	KWB9L-63M-4-D40/30-A	
	50		KWB9L-63M-4-B50/30-A	KWB9L-63M-4-C50/30-A	KWB9L-63M-4-D50/30-A	
	63		KWB9L-63M-4-B63/30-A	KWB9L-63M-4-C63/30-A	KWB9L-63M-4-D63/30-A	
	6	100mA	KWB9L-63M-4-B6/100-A	KWB9L-63M-4-C6/100-A	KWB9L-63M-4-D6/100-A	
	10		KWB9L-63M-4-B10/100-A	KWB9L-63M-4-C10/100-A	KWB9L-63M-4-D10/100-A	
	16		KWB9L-63M-4-B16/100-A	KWB9L-63M-4-C16/100-A	KWB9L-63M-4-D16/100-A	
	20		KWB9L-63M-4-B20/100-A	KWB9L-63M-4-C20/100-A	KWB9L-63M-4-D20/100-A	
	25		KWB9L-63M-4-B25/100-A	KWB9L-63M-4-C25/100-A	KWB9L-63M-4-D25/100-A	
	32		KWB9L-63M-4-B32/100-A	KWB9L-63M-4-C32/100-A	KWB9L-63M-4-D32/100-A	
	40		KWB9L-63M-4-B40/100-A	KWB9L-63M-4-C40/100-A	KWB9L-63M-4-D40/100-A	
	50		KWB9L-63M-4-B50/100-A	KWB9L-63M-4-C50/100-A	KWB9L-63M-4-D50/100-A	
	63		KWB9L-63M-4-B63/100-A	KWB9L-63M-4-C63/100-A	KWB9L-63M-4-D63/100-A	
	6	300mA	KWB9L-63M-4-B6/300-A	KWB9L-63M-4-C6/300-A	KWB9L-63M-4-D6/300-A	
	10		KWB9L-63M-4-B10/300-A	KWB9L-63M-4-C10/300-A	KWB9L-63M-4-D10/300-A	
	16		KWB9L-63M-4-B16/300-A	KWB9L-63M-4-C16/300-A	KWB9L-63M-4-D16/300-A	
	20		KWB9L-63M-4-B20/300-A	KWB9L-63M-4-C20/300-A	KWB9L-63M-4-D20/300-A	
	25		KWB9L-63M-4-B25/300-A	KWB9L-63M-4-C25/300-A	KWB9L-63M-4-D25/300-A	
	32		KWB9L-63M-4-B32/300-A	KWB9L-63M-4-C32/300-A	KWB9L-63M-4-D32/300-A	
	40		KWB9L-63M-4-B40/300-A	KWB9L-63M-4-C40/300-A	KWB9L-63M-4-D40/300-A	
	50		KWB9L-63M-4-B50/300-A	KWB9L-63M-4-C50/300-A	KWB9L-63M-4-D50/300-A	
	63		KWB9L-63M-4-B63/300-A	KWB9L-63M-4-C63/300-A	KWB9L-63M-4-D63/300-A	

KWB9L-63M Series Residual Current Circuit Breakers with Overcurrent Protection

Curves



Breaking time of residual current

Max.breaking time					
$I_n(A)$	$I_{\Delta n}(A)$	$I_{\Delta n}$	$2 I_{\Delta n}$	$5 I_{\Delta n}$	5-500A
6-63	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current $I_n (A)$	Cross section area $s(mm^2)$	Tightening torque(N.m)
6	1	2.0
10	1.5	
13	1.5	
16-20	2.5	
25	4	
32	6	
40-50	10	
63	16	

Types

The RCBOs are divided into types depending on the operating function:

Type AC : For which tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly rising.

Type A : For which tripping is ensured for residual sinusoidal alternating currents and residual pulsating direct currents, whether suddenly applied or slowly rising.

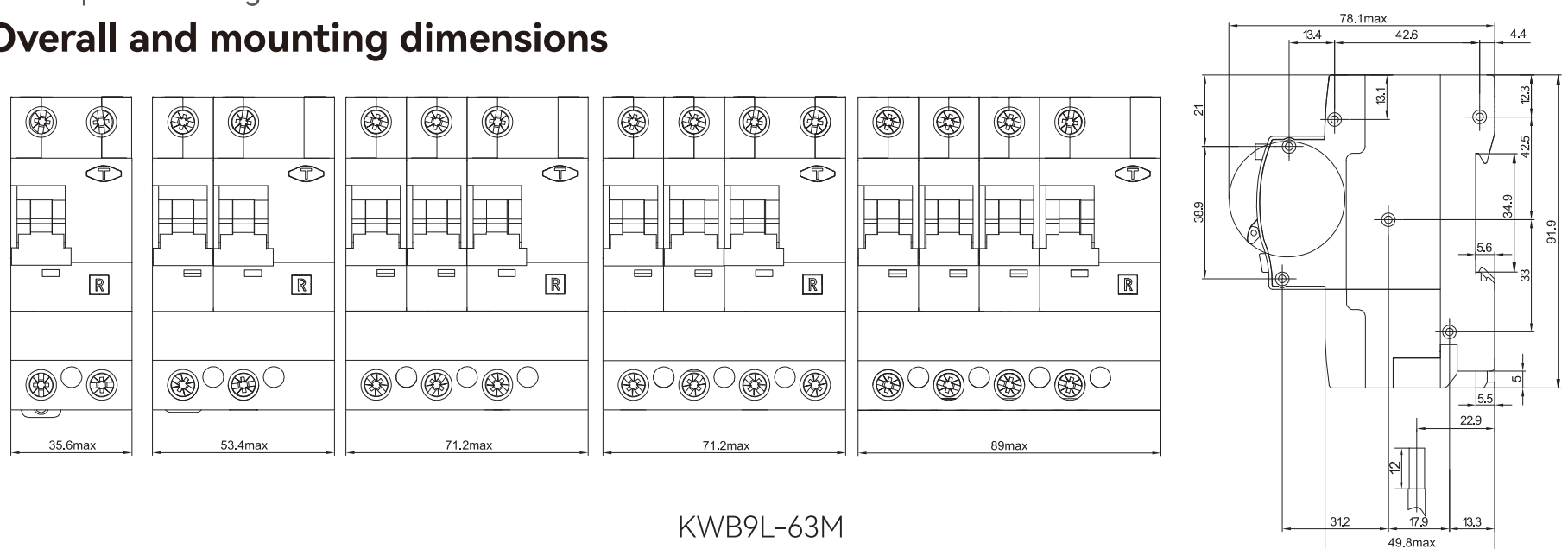
Tripping sensitivity data

RCBO with a rated residual current of maximum 30mA are used for personnel,material and fire protection, as well as for protection against direct contact.

RCBO with a rated residual current of maximum 300mA are used as preventative fire protection in case of insulation faults.

RCBO with a rated residual current of 100mA co-ordinated with the earth system according to the formula $I_{\Delta n} < 50/R$, to provide protection again indirect contacts.

Overall and mounting dimensions



KWB9L-63M

KWR1-100M/H Series Residual Current Circuit Breaker	
Standard	IEC/EN 61008-1
Rated conditional short-circuit current(kA)	6,10
Rated current(A),In	16/25/40/63/80/100
Number of poles	2P(1P+N),4P(3P+N)
Rated sensitivity currents(mA),IΔn	10,30,100,300,500 (10mA max 25A)
Rated making and breaking capacity	500A or 10 × In
Rated impulse withstand voltage Uimp(kV)	4
Rated voltage(V)	2pole AC 240
	4pole AC 415
Ambient temperature (°C)	-25~+40,Max.95%humidity
Environment temperature(°C)	-40°C~+60°C
Rated residual current making & breaking capacity, IΔm	500A for In=16,25,40A 630A for In=63A 800A for In=80A 1000A for In=100A
Type of trip	Electro-magnetic release
Terminal capacity	Cables up to 35mm²
Protection degree	IP20
Installation	35mm DIN rail
Residual current operating characteristic	AC/A/AC+S/A+S
Certification	  



KWR1-100H-2P



KWR1-100H-4P

KWR1-100M Series Residual Current Circuit Breaker

	Rated current(A)	I _{Δn}	Type AC 	Type A 	Type AC+S  + 	Type A+S  + 	Packing unit
 KWR1-100M-2P	16	10mA	KWR1-100M/2/16/10	KWR1-100M/2/16/10-A	-	-	6
	25		KWR1-100M/2/25/10	KWR1-100M/2/25/10-A	-	-	
	16	30mA	KWR1-100M/2/16/30	KWR1-100M/2/16/30-A	-	-	
	25		KWR1-100M/2/25/30	KWR1-100M/2/25/30-A	-	-	
	40		KWR1-100M/2/40/30	KWR1-100M/2/40/30-A	-	-	
	63		KWR1-100M/2/63/30	KWR1-100M/2/63/30-A	-	-	
	80		KWR1-100M/2/80/30	KWR1-100M/2/80/30-A	-	-	
	100		KWR1-100M/2/100/30	KWR1-100M/2/100/30-A	-	-	
	16	100mA	KWR1-100M/2/16/100	KWR1-100M/2/16/100-A	-	-	
	25		KWR1-100M/2/25/100	KWR1-100M/2/25/100-A	KWR1-100M/2/25/100-AC-S	KWR1-100M/2/25/100-A-S	
	40		KWR1-100M/2/40/100	KWR1-100M/2/40/100-A	KWR1-100M/2/40/100-AC-S	KWR1-100M/2/40/100-A-S	
	63		KWR1-100M/2/63/100	KWR1-100M/2/63/100-A	KWR1-100M/2/63/100-AC-S	KWR1-100M/2/63/100-A-S	
	80		KWR1-100M/2/80/100	KWR1-100M/2/80/100-A	KWR1-100M/2/80/100-AC-S	KWR1-100M/2/80/100-A-S	
	100		KWR1-100M/2/100/100	KWR1-100M/2/100/100-A	KWR1-100M/2/100/100-AC-S	KWR1-100M/2/100/100-A-S	
	16	300mA	KWR1-100M/2/16/300	KWR1-100M/2/16/300-A	-	-	
	25		KWR1-100M/2/25/300	KWR1-100M/2/25/300-A	KWR1-100M/2/25/300-AC-S	KWR1-100M/2/25/300-A-S	
	40		KWR1-100M/2/40/300	KWR1-100M/2/40/300-A	KWR1-100M/2/40/300-AC-S	KWR1-100M/2/40/300-A-S	
	63		KWR1-100M/2/63/300	KWR1-100M/2/63/300-A	KWR1-100M/2/63/300-AC-S	KWR1-100M/2/63/300-A-S	
	80		KWR1-100M/2/80/300	KWR1-100M/2/80/300-A	KWR1-100M/2/80/300-AC-S	KWR1-100M/2/80/300-A-S	
	100		KWR1-100M/2/100/300	KWR1-100M/2/100/300-A	KWR1-100M/2/100/300-AC-S	KWR1-100M/2/100/300-A-S	
	16	500mA	KWR1-100M/2/16/500	KWR1-100M/2/16/500-A	-	-	
	25		KWR1-100M/2/25/500	KWR1-100M/2/25/500-A	KWR1-100M/2/25/500-AC-S	KWR1-100M/2/25/500-A-S	
	40		KWR1-100M/2/40/500	KWR1-100M/2/40/500-A	KWR1-100M/2/40/500-AC-S	KWR1-100M/2/40/500-A-S	
	63		KWR1-100M/2/63/500	KWR1-100M/2/63/500-A	KWR1-100M/2/63/500-AC-S	KWR1-100M/2/63/500-A-S	
	80		KWR1-100M/2/80/500	KWR1-100M/2/80/500-A	KWR1-100M/2/80/500-AC-S	KWR1-100M/2/80/500-A-S	
	100		KWR1-100M/2/100/500	KWR1-100M/2/100/500-A	KWR1-100M/2/100/500-AC-S	KWR1-100M/2/100/500-A-S	

KWR1-100M Series

Residual Current Circuit Breaker

	Rated current(A)	I _{Δn}	Type AC 	Type A 	Type AC+S  + 	Type A+S  + 	Packing unit
 KWR1-100M-4P	16	10mA	KWR1-100M/4/16/10	KWR1-100M/4/16/10-A	-	-	3
	25		KWR1-100M/4/25/10	KWR1-100M/4/25/10-A	-	-	
	16	30mA	KWR1-100M/4/16/30	KWR1-100M/4/16/30-A	-	-	
	25		KWR1-100M/4/25/30	KWR1-100M/4/25/30-A	-	-	
	40		KWR1-100M/4/40/30	KWR1-100M/4/40/30-A	-	-	
	63		KWR1-100M/4/63/30	KWR1-100M/4/63/30-A	-	-	
	80		KWR1-100M/4/80/30	KWR1-100M/4/80/30-A	-	-	
	100		KWR1-100M/4/100/30	KWR1-100M/4/100/30-A	-	-	
	16	100mA	KWR1-100M/4/16/100	KWR1-100M/4/16/100-A	-	-	
	25		KWR1-100M/4/25/100	KWR1-100M/4/25/100-A	KWR1-100M/4/25/100-AC-S	KWR1-100M/4/25/100-A-S	
	40		KWR1-100M/4/40/100	KWR1-100M/4/40/100-A	KWR1-100M/4/40/100-AC-S	KWR1-100M/4/40/100-A-S	
	63		KWR1-100M/4/63/100	KWR1-100M/4/63/100-A	KWR1-100M/4/63/100-AC-S	KWR1-100M/4/63/100-A-S	
	80		KWR1-100M/4/80/100	KWR1-100M/4/80/100-A	KWR1-100M/4/80/100-AC-S	KWR1-100M/4/80/100-A-S	
	100		KWR1-100M/4/100/100	KWR1-100M/4/100/100-A	KWR1-100M/4/100/100-AC-S	KWR1-100M/4/100/100-A-S	
	16	300mA	KWR1-100M/4/16/300	KWR1-100M/4/16/300-A	-	-	
	25		KWR1-100M/4/25/300	KWR1-100M/4/25/300-A	KWR1-100M/4/25/300-AC-S	KWR1-100M/4/25/300-A-S	
	40		KWR1-100M/4/40/300	KWR1-100M/4/40/300-A	KWR1-100M/4/40/300-AC-S	KWR1-100M/4/40/300-A-S	
	63		KWR1-100M/4/63/300	KWR1-100M/4/63/300-A	KWR1-100M/4/63/300-AC-S	KWR1-100M/4/63/300-A-S	
	80		KWR1-100M/4/80/300	KWR1-100M/4/80/300-A	KWR1-100M/4/80/300-AC-S	KWR1-100M/4/80/300-A-S	
	100		KWR1-100M/4/100/300	KWR1-100M/4/100/300-A	KWR1-100M/4/100/300-AC-S	KWR1-100M/4/100/300-A-S	
	16	500mA	KWR1-100M/4/16/500	KWR1-100M/4/16/500-A	-	-	
	25		KWR1-100M/4/25/500	KWR1-100M/4/25/500-A	KWR1-100M/4/25/500-AC-S	KWR1-100M/4/25/500-A-S	
	40		KWR1-100M/4/40/500	KWR1-100M/4/40/500-A	KWR1-100M/4/40/500-AC-S	KWR1-100M/4/40/500-A-S	
	63		KWR1-100M/4/63/500	KWR1-100M/4/63/500-A	KWR1-100M/4/63/500-AC-S	KWR1-100M/4/63/500-A-S	
	80		KWR1-100M/4/80/500	KWR1-100M/4/80/500-A	KWR1-100M/4/80/500-AC-S	KWR1-100M/4/80/500-A-S	
	100		KWR1-100M/4/100/500	KWR1-100M/4/100/500-A	KWR1-100M/4/100/500-AC-S	KWR1-100M/4/100/500-A-S	

KWR1-100H Series Residual Current Circuit Breaker

	Rated current(A)	IΔn	Type AC 	Type A 	Type AC+S  + 	Type A+S  + 	Packing unit
 KWR1-100H-2P	16	10mA	KWR1-100H/2/16/10	KWR1-100H/2/16/10-A	-	-	6
	25		KWR1-100H/2/25/10	KWR1-100H/2/25/10-A	-	-	
	16	30mA	KWR1-100H/2/16/30	KWR1-100H/2/16/30-A	-	-	
	25		KWR1-100H/2/25/30	KWR1-100H/2/25/30-A	-	-	
	40		KWR1-100H/2/40/30	KWR1-100H/2/40/30-A	-	-	
	63		KWR1-100H/2/63/30	KWR1-100H/2/63/30-A	-	-	
	80		KWR1-100H/2/80/30	KWR1-100H/2/80/30-A	-	-	
	100		KWR1-100H/2/100/30	KWR1-100H/2/100/30-A	-	-	
	16	100mA	KWR1-100H/2/16/100	KWR1-100H/2/16/100-A	-	-	
	25		KWR1-100H/2/25/100	KWR1-100H/2/25/100-A	KWR1-100H/2/25/100-AC-S	KWR1-100H/2/25/100-A-S	
	40		KWR1-100H/2/40/100	KWR1-100H/2/40/100-A	KWR1-100H/2/40/100-AC-S	KWR1-100H/2/40/100-A-S	
	63		KWR1-100H/2/63/100	KWR1-100H/2/63/100-A	KWR1-100H/2/63/100-AC-S	KWR1-100H/2/63/100-A-S	
	80		KWR1-100H/2/80/100	KWR1-100H/2/80/100-A	KWR1-100H/2/80/100-AC-S	KWR1-100H/2/80/100-A-S	
	100		KWR1-100H/2/100/100	KWR1-100H/2/100/100-A	KWR1-100H/2/100/100-AC-S	KWR1-100H/2/100/100-A-S	
	16	300mA	KWR1-100H/2/16/300	KWR1-100H/2/16/300-A	-	-	
	25		KWR1-100H/2/25/300	KWR1-100H/2/25/300-A	KWR1-100H/2/25/300-AC-S	KWR1-100H/2/25/300-A-S	
	40		KWR1-100H/2/40/300	KWR1-100H/2/40/300-A	KWR1-100H/2/40/300-AC-S	KWR1-100H/2/40/300-A-S	
	63		KWR1-100H/2/63/300	KWR1-100H/2/63/300-A	KWR1-100H/2/63/300-AC-S	KWR1-100H/2/63/300-A-S	
	80		KWR1-100H/2/80/300	KWR1-100H/2/80/300-A	KWR1-100H/2/80/300-AC-S	KWR1-100H/2/80/300-A-S	
	100		KWR1-100H/2/100/300	KWR1-100H/2/100/300-A	KWR1-100H/2/100/300-AC-S	KWR1-100H/2/100/300-A-S	
	16	500mA	KWR1-100H/2/16/500	KWR1-100H/2/16/500-A	-	-	
	25		KWR1-100H/2/25/500	KWR1-100H/2/25/500-A	KWR1-100H/2/25/500-AC-S	KWR1-100H/2/25/500-A-S	
	40		KWR1-100H/2/40/500	KWR1-100H/2/40/500-A	KWR1-100H/2/40/500-AC-S	KWR1-100H/2/40/500-A-S	
	63		KWR1-100H/2/63/500	KWR1-100H/2/63/500-A	KWR1-100H/2/63/500-AC-S	KWR1-100H/2/63/500-A-S	
	80		KWR1-100H/2/80/500	KWR1-100H/2/80/500-A	KWR1-100H/2/80/500-AC-S	KWR1-100H/2/80/500-A-S	
	100		KWR1-100H/2/100/500	KWR1-100H/2/100/500-A	KWR1-100H/2/100/500-AC-S	KWR1-100H/2/100/500-A-S	

KWR1-100H Series

Residual Current Circuit Breaker

	Rated current(A)	I _{Δn}	Type AC 	Type A 	Type AC+S  + 	Type A+S  + 	Packing unit
 KWR1-100H-4P	16	10mA	KWR1-100H/4/16/10	KWR1-100H/4/16/10-A	-	-	3
	25		KWR1-100H/4/25/10	KWR1-100H/4/25/10-A	-	-	
	16	30mA	KWR1-100H/4/16/30	KWR1-100H/4/16/30-A	-	-	
	25		KWR1-100H/4/25/30	KWR1-100H/4/25/30-A	-	-	
	40		KWR1-100H/4/40/30	KWR1-100H/4/40/30-A	-	-	
	63		KWR1-100H/4/63/30	KWR1-100H/4/63/30-A	-	-	
	80		KWR1-100H/4/80/30	KWR1-100H/4/80/30-A	-	-	
	100		KWR1-100H/4/100/30	KWR1-100H/4/100/30-A	-	-	
	16	100mA	KWR1-100H/4/16/100	KWR1-100H/4/16/100-A	-	-	
	25		KWR1-100H/4/25/100	KWR1-100H/4/25/100-A	KWR1-100H/4/25/100-AC-S	KWR1-100H/4/25/100-A-S	
	40		KWR1-100H/4/40/100	KWR1-100H/4/40/100-A	KWR1-100H/4/40/100-AC-S	KWR1-100H/4/40/100-A-S	
	63		KWR1-100H/4/63/100	KWR1-100H/4/63/100-A	KWR1-100H/4/63/100-AC-S	KWR1-100H/4/63/100-A-S	
	80		KWR1-100H/4/80/100	KWR1-100H/4/80/100-A	KWR1-100H/4/80/100-AC-S	KWR1-100H/4/80/100-A-S	
	100		KWR1-100H/4/100/100	KWR1-100H/4/100/100-A	KWR1-100H/4/100/100-AC-S	KWR1-100H/4/100/100-A-S	
	16	300mA	KWR1-100H/4/16/300	KWR1-100H/4/16/300-A	-	-	
	25		KWR1-100H/4/25/300	KWR1-100H/4/25/300-A	KWR1-100H/4/25/300-AC-S	KWR1-100H/4/25/300-A-S	
	40		KWR1-100H/4/40/300	KWR1-100H/4/40/300-A	KWR1-100H/4/40/300-AC-S	KWR1-100H/4/40/300-A-S	
	63		KWR1-100H/4/63/300	KWR1-100H/4/63/300-A	KWR1-100H/4/63/300-AC-S	KWR1-100H/4/63/300-A-S	
	80		KWR1-100H/4/80/300	KWR1-100H/4/80/300-A	KWR1-100H/4/80/300-AC-S	KWR1-100H/4/80/300-A-S	
	100		KWR1-100H/4/100/300	KWR1-100H/4/100/300-A	KWR1-100H/4/100/300-AC-S	KWR1-100H/4/100/300-A-S	
	16	500mA	KWR1-100H/4/16/500	KWR1-100H/4/16/500-A	-	-	
	25		KWR1-100H/4/25/500	KWR1-100H/4/25/500-A	KWR1-100H/4/25/500-AC-S	KWR1-100H/4/25/500-A-S	
	40		KWR1-100H/4/40/500	KWR1-100H/4/40/500-A	KWR1-100H/4/40/500-AC-S	KWR1-100H/4/40/500-A-S	
	63		KWR1-100H/4/63/500	KWR1-100H/4/63/500-A	KWR1-100H/4/63/500-AC-S	KWR1-100H/4/63/500-A-S	
	80		KWR1-100H/4/80/500	KWR1-100H/4/80/500-A	KWR1-100H/4/80/500-AC-S	KWR1-100H/4/80/500-A-S	
	100		KWR1-100H/4/100/500	KWR1-100H/4/100/500-A	KWR1-100H/4/100/500-AC-S	KWR1-100H/4/100/500-A-S	

KWR1–100M/H Series

Residual Current Circuit Breaker

■ Life

In	Operating cycles	
	On-load operating cycles	Off-load operating cycles
16,25,40,63,80,100	4000	6000

■ Breaking time of residual current

Max.breaking time						
Residual current operating characteristic	In(A)	I _{Δn} (A)	I _{Δn}	2 I _{Δn}	5 I _{Δn}	5–500A
A/AC	16/25/40/63/80/100	0.01,0.03,0.1,0.3,0.5	0.15s	0.08s	0.04s	0.04s
AC+S/A+S	25/40/63/80/100	0.1,0.3,0.5	0.13~0.5s	0.06~0.2s	0.05~0.15s	0.04~0.15s

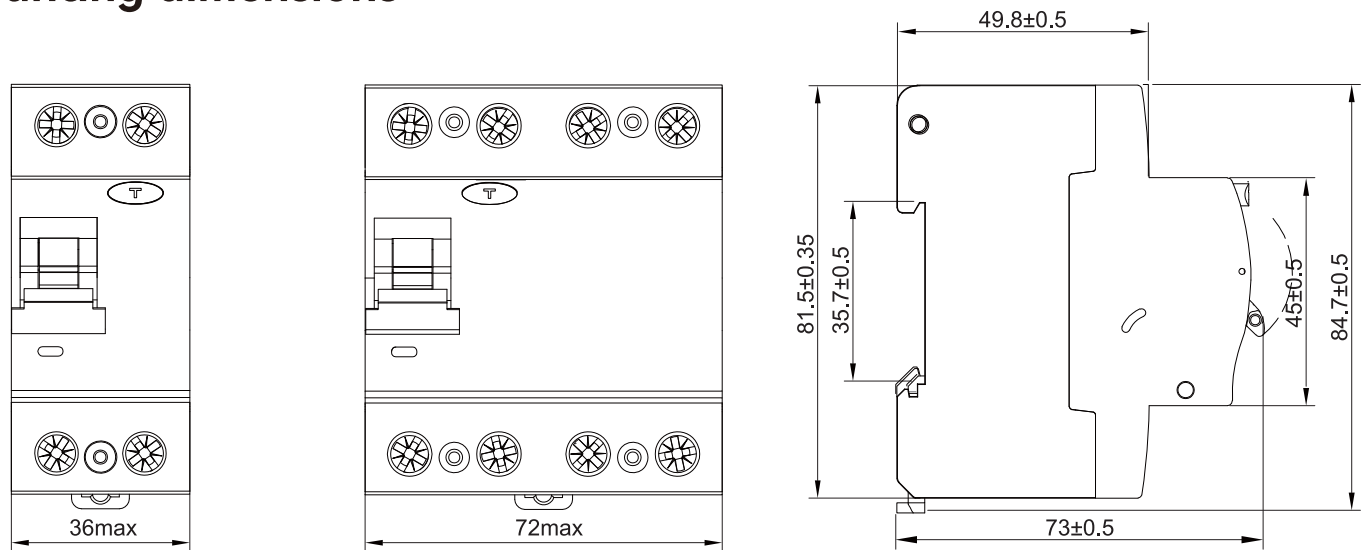
■ Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current In (A)	Cross section area s(mm²)	Tightening torque(N.m)
16	2.5	2.5
25	4	
40	10	
63	16	
80	25	
100	35	

■ Features

- When designing residual current devices, manufacturing technology and type of routine tests, the IEC/EN 61008-1 standards were considered.Important features are:
- Up to date design
- User-friendly connection of conductors and busbars
- Resistance to current surges; unwanted tripping excluded
- Simple and solid fixing to a 35 mm mounting rail in compliance with EN 60715
- Additional colour display of main contacts position (red:contacts closed, green:contacts open)

■ Overall and mounting dimensions



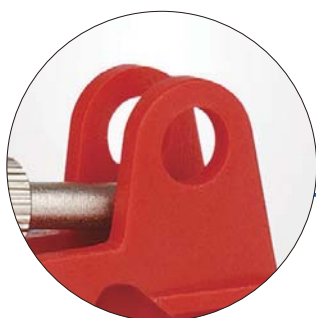
KWR1-100M/H Series

Residual Current Circuit Breaker

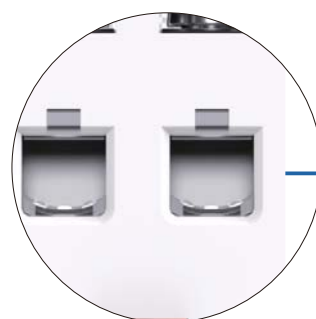
Core Advantages



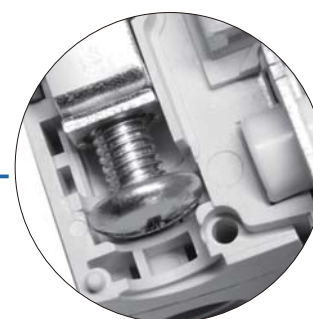
Fast Clip



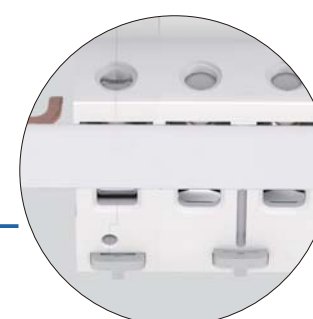
Safety Lock



Anti-misinsertion



High Torque Terminal (5Nm)



Dual Top & Bottom Busbar Connections

Detailed Descriptions

1. Fast Clip

Simple and reliable modular design requiring no additional tools or accessories.

2. Enhanced Safety Lock

Integrated lock mechanism to prevent accidental operation and improve safety.

3. Flexible Busbar Configuration

Versatile design supports systems without a busbar, with a single busbar, or with dual busbars.

4. High Torque Terminal (5Nm)

Upgraded terminals allow for a maximum torque of 5Nm, ensuring superior connection integrity.

5. Anti-misinsertion

Unique terminal structure prevents incorrect wiring insertion.

KWB9 Series

Circuit Breaker Accessories

Rated voltage(V)	AC 230		
Rated frequency(Hz)	50/60Hz		
Ambient temperature(°C)	-25~+40,Max.95%humidity		
Storage temprature (°C)	-20~+60		
Electric endurance	4000		
Mechanical endurance	10000		
Protection degree	IP20		
Applicable products	MCB		RCBO
	KWB9-63M/H	KWB9-63M-DC	KWB9LE-63M/H



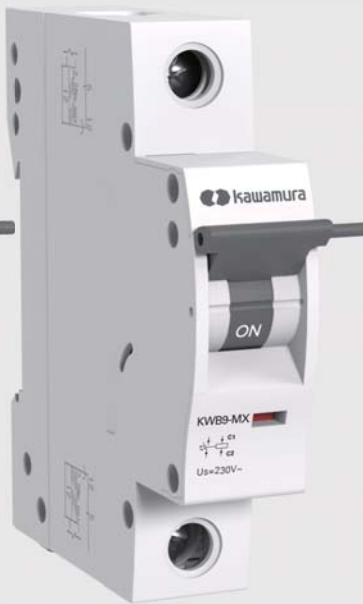
KWB9-OF



KWB9-SD



KWB9-MN



KWB9-MX



KWB9-63H-1P

KWB9 Series

Circuit Breaker Accessories

Application

Applicable to MCB model KWB9-63,used to control remote signaling device, Mounted on the left side of the MCB KWB9-63,indicating "ON", "OFF" status of combined MCB.



Combination scheme

OF	KWB9-63	OF	MX	KWB9-63
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OF Auxiliary Contact

Type code	Rated voltage (V)	Rated current (A)
AC-12	230	4
AC-14	230	2
DC-12	110	0.5
DC-12	48	1

- Dielectric strength: 1500V/1 min
- Performance under conditional short-circuit current (with 6 A Backup Fuse): 1 kA
- Electro-mechanical endurance:≥5000

MX Shunt Trip

Type code	Rated voltage (V)
AC	AC 230V
DC	DC 24/48V

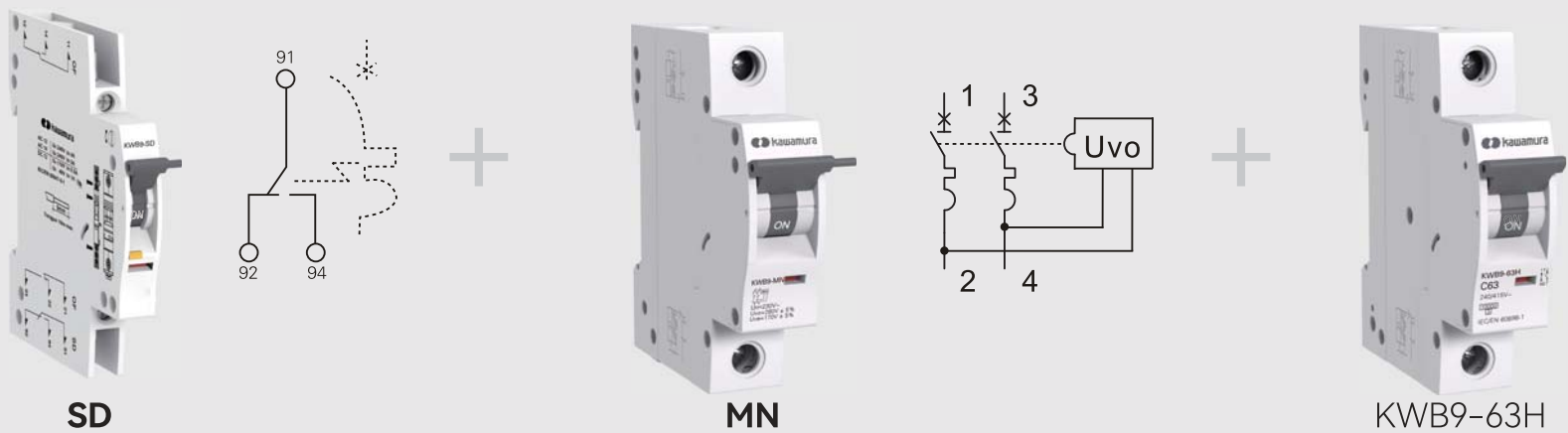
- Rated insulation voltage(Ui): 500V
- Operate voltage range: 70-110% Us
- Dielectric strength: 2kV/1 min
- Electro-mechanical endurance:≥4000
- Mounting on the left side of MCB/RCBO, used to trip the combined MCB/RCBO by remote controlling device.

KWB9 Series

Circuit Breaker Accessories

Application

Applicable to MCB model KWB9-63, used to control remote signaling device, is used to indicate remote fault tripping and "ON" or "OFF" position of associated devices.



Combination scheme

SD	KWB9-63	SD	MN	KWB9-63
----	---------	----	----	---------

SD Alarm Switch

Type code	Rated voltage (V)	Rated current (A)
AC-12	230	4
AC-14	230	2
DC-12	110	0.5
DC-12	48	1

- Dielectric strength: 1500V/1 min
- Current-Limiting Short-Circuit Current (with 6 A Backup Fuse): 1 kA
- Electro-mechanical endurance:≥5000

MN Over-voltage/Under-voltage Tripper

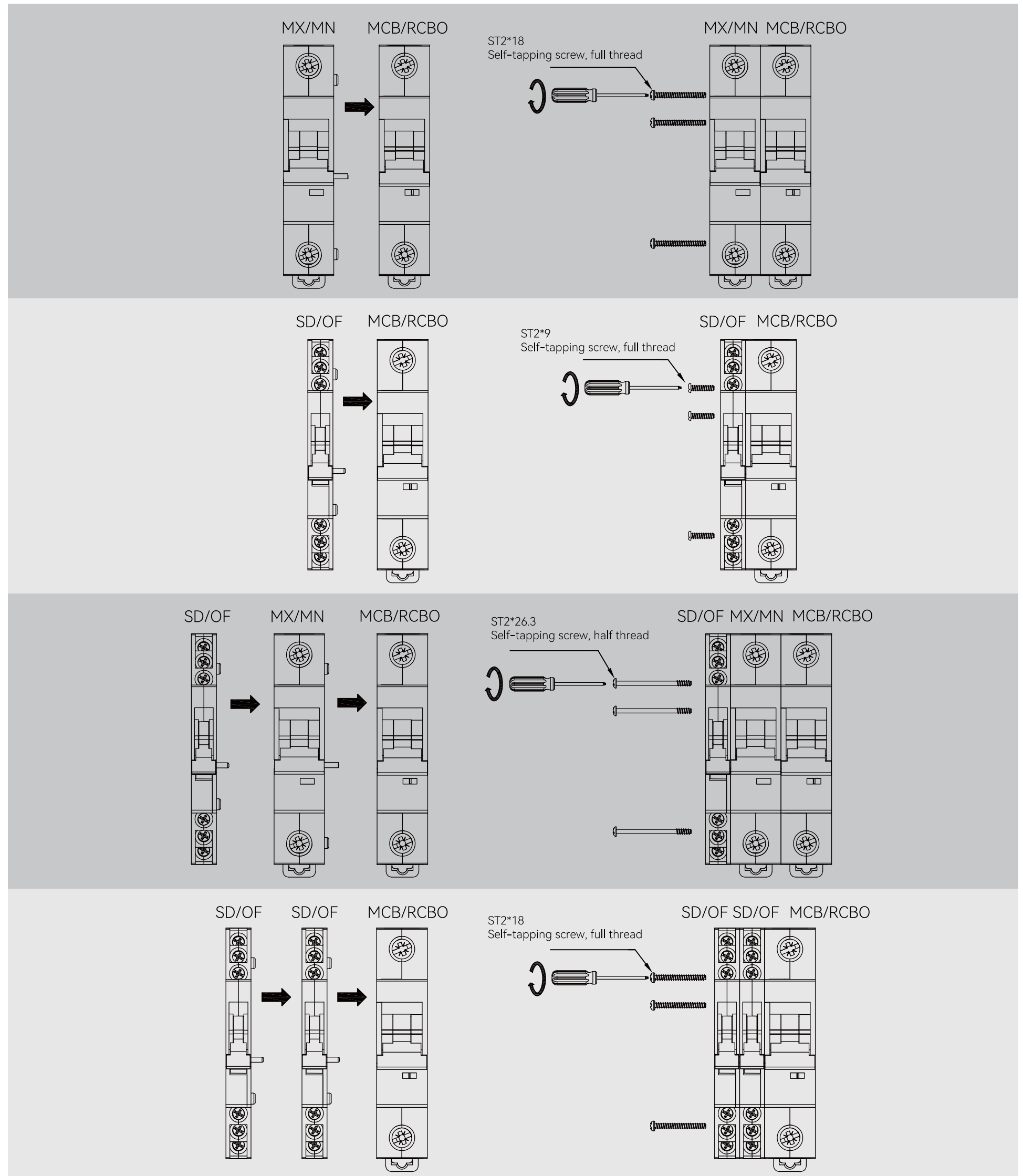
Type code	Rated voltage (V)
MN230V	AC 230

- Rated insulation voltage(Ui): 500V
- Over-voltage tripping range: 280V±5%
- Under-voltage tripping range: 170V±5%
- Electro-mechanical endurance:≥ 4000
- Mounted on the left side of circuit breaker, actuate the combined device to trip in case of under-voltage or over-voltage, effectively prevent the device from closing operation under abnormal power voltage condition.

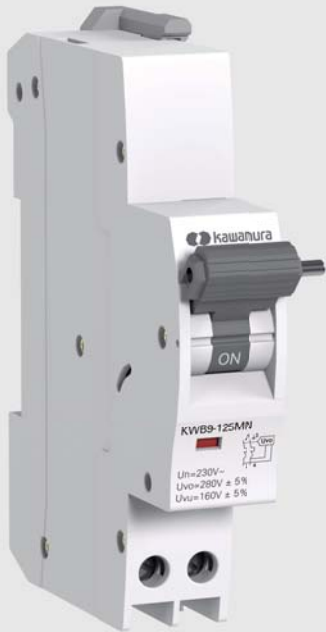
KWB9 Series

Circuit Breaker Accessories

■ Assembly Schematic Diagram



KWB9-125MN Series		Circuit Breaker Accessories	
Rated voltage(V)		AC 230	
Rated frequency(Hz)		50/60Hz	
Rated insulation voltage Ui(V)		500	
Rated impulse withstand voltage Uimp(kV)		4	
Undervoltage Trip Range		80.5~160V AC	Tripping Time ≤ 800ms
Overvoltage Trip Range		280+5% VAC	Tripping Time ≤ 800ms
Ambient temperature(°C)		-20~+55,Max.95%humidity	
Storage temprature (°C)		-20~+55	
Electric endurance		4000	
Mechanical endurance		10000	
Protection degree		IP20	
Applicable products		MCB	
		KWB9-125H/M/L	



KWB9-125MN

KWB9-125MX Series		Circuit Breaker Accessories	
Rated voltage(V)		AC 230/400	DC 24/48
Rated frequency(Hz)		50/60Hz	
Rated insulation voltage Ui(V)		500	
Rated impulse withstand voltage Uimp(kV)		4	
Tripping Voltage		(70%~110%) Us	Us=Ue; Tripping Time ≤ 100ms
Ambient temperature(°C)		-20~+55,Max.95%humidity	
Storage temprature (°C)		-20~+60	
Electric endurance		4000	
Mechanical endurance		10000	
Protection degree		IP20	
Applicable products		MCB	
		KWB9-125H/M/L	



KWB9-125MX

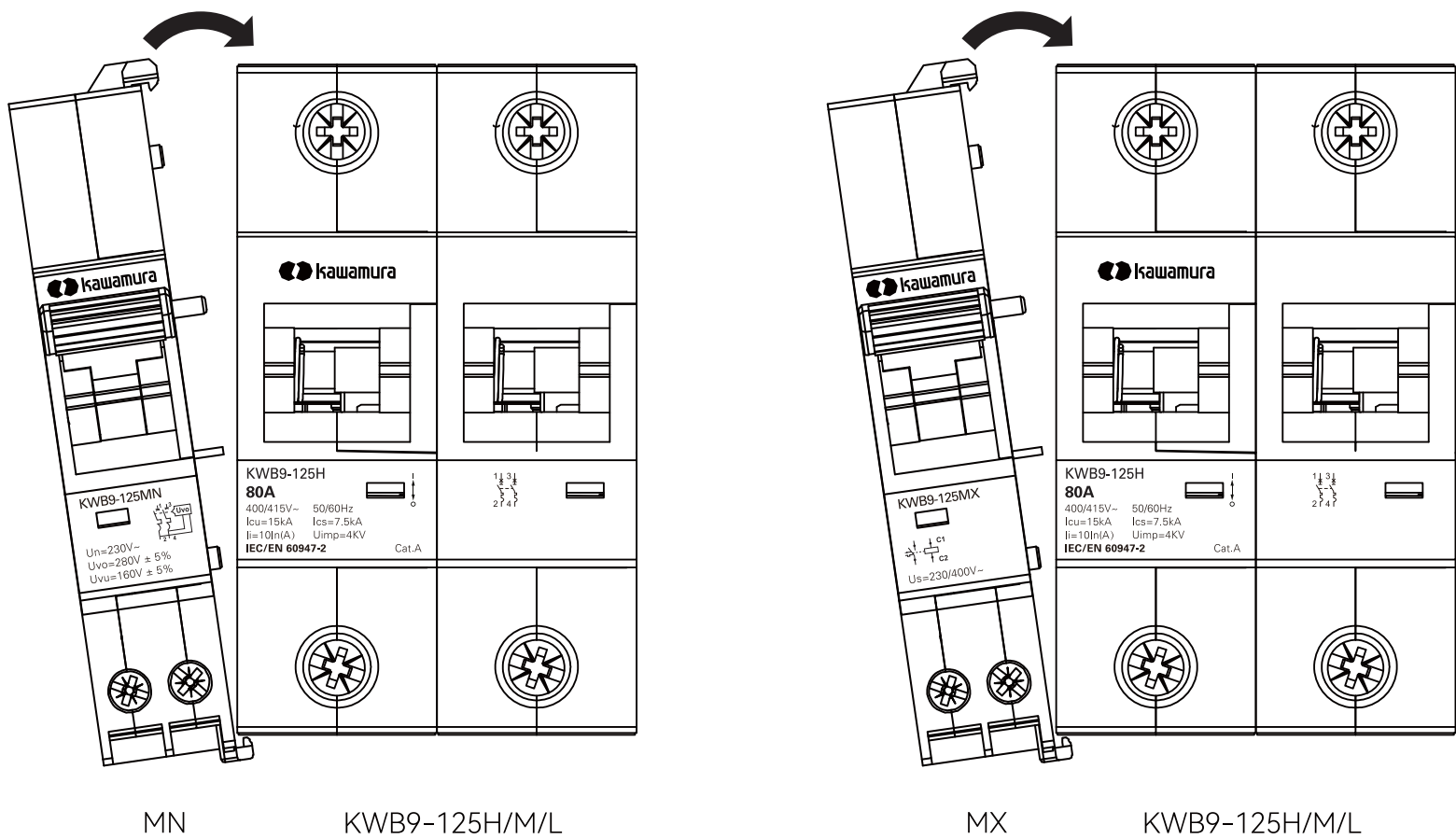
KWB9-125MN/MX Series

Circuit Breaker Accessories

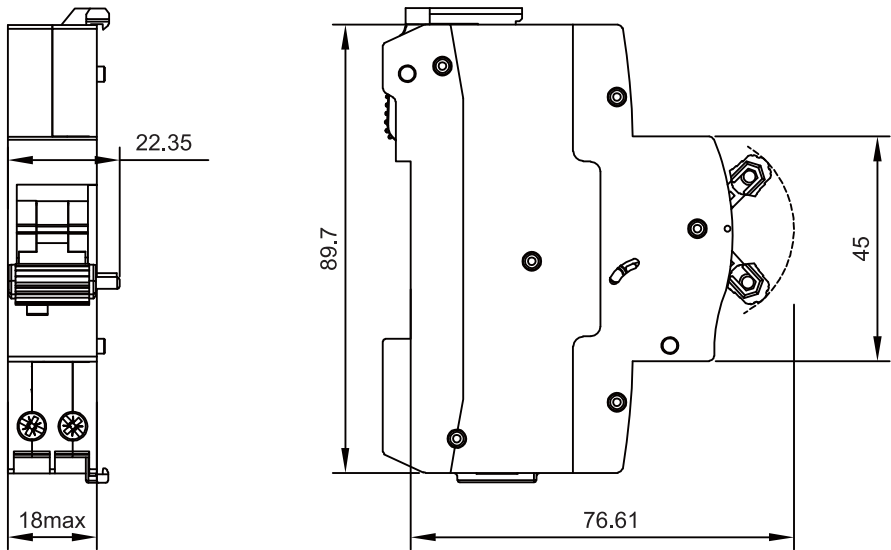
Installation

Incoming & outgoing wiring requirement	Supports forward and reverse connection
Mounting method	Left-side assembly, snap-in assembly type
Wiring capacity	Solid wire: 1-6 mm ² Stranded wire: 1-4 mm ²
Screw / Tightening torque	M3.5 / 0.8 N·m

Assembly Schematic Diagram



Overall and mounting dimensions



Selection Guide

■ MCB Ordering Instructions

When ordering circuit breakers, the following items must be clearly specified:

- ☐ Product model and specification
- ☐ Number of poles
- ☐ Rated current
- ☐ Trip unit type
- ☐ Order quantity

Example:

For an order of KWB9-63H Miniature Circuit Breaker (MCB) with a rated current of 32A, 1-pole, C-type trip characteristic, quantity 1000 units, the order specification shall be written as: KWB9-63H/1P, C32, 1000 units.

■ RCCB/RCBO Ordering Instructions

When ordering circuit breakers, the following items shall be clearly specified:

- ☐ Product model and name
- ☐ Number of poles
- ☐ Rated current
- ☐ Tripping curve
- ☐ Rated residual operating current
- ☐ Type of residual current operation
- ☐ Order quantity

Example:

For an order of KWB9LE-32H RCBO, rated current 32A, number of poles 1P+N, tripping curve Type C, type of residual current operation Type AC, rated residual operating current 30mA, order quantity 100 units.

The order shall be written as: KWB9LE-32H C32 1P+N 30mA AC 100 units.

■ MCB Auxiliary Accessories (MX/MN/OF/SD) Ordering Instructions

When ordering MCB auxiliary accessories, the following items shall be clearly specified:

- ☐ Product model & accessory type
- ☐ Matched MCB model
- ☐ Rated control voltage (for MX/MN only)
- ☐ Contact configuration (for OF/SD only)
- ☐ Order quantity

Example:

MX (Shunt Trip): MCB model KWB9-63H, voltage 230V AC, quantity 50 units

The order shall be written as: MX KWB9-63H 230V AC 50 units

