

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

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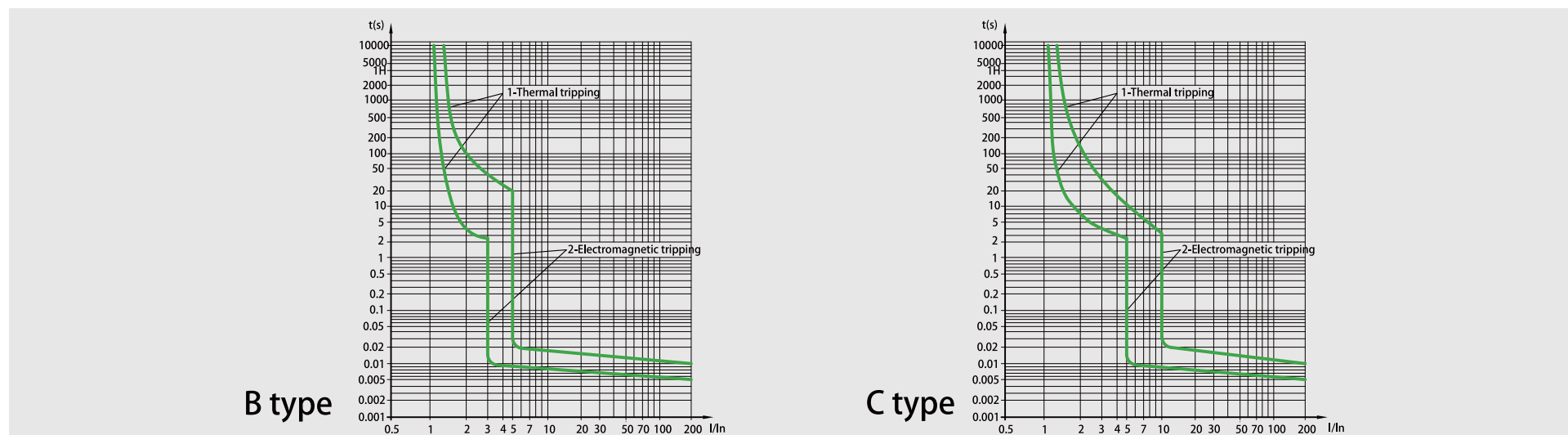
	Rated current(A)	I Δ n	Type AC 		Type A 		Packing unit
			B curve	C curve	B curve	C curve	
 Type AC 	6	10mA	KWB9LE-32M/B6/10	KWB9LE-32M/C6/10	KWB9LE-32M/B6/10-A	KWB9LE-32M/C6/10-A	12
	10		KWB9LE-32M/B10/10	KWB9LE-32M/C10/10	KWB9LE-32M/B10/10-A	KWB9LE-32M/C10/10-A	
	13		KWB9LE-32M/B13/10	KWB9LE-32M/C13/10	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 							

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	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	

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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

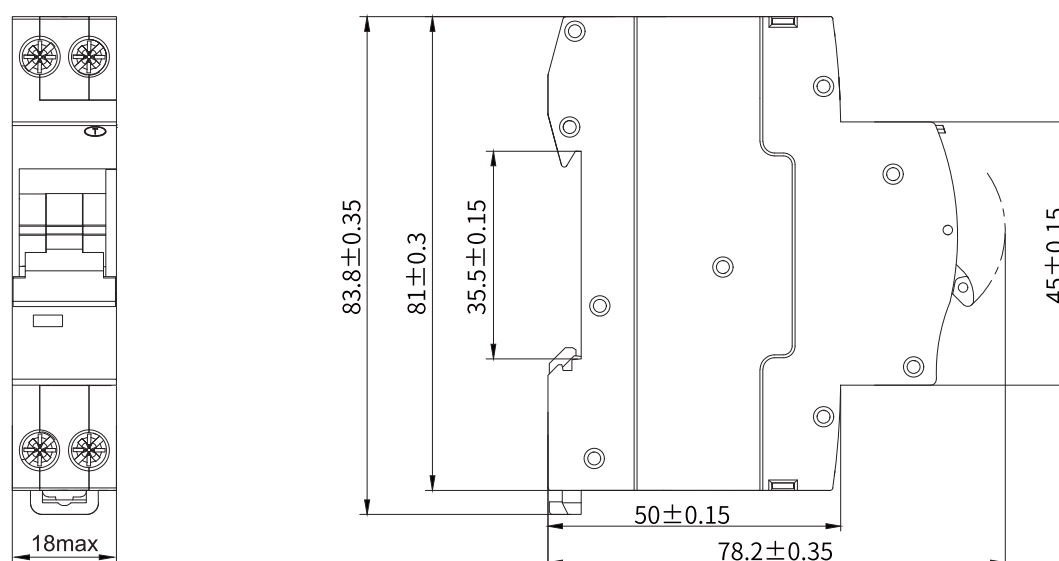
Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

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