

HDB9LE Residual Current Operated Circuit Breaker

Standard: IEC 61009-1



Function

HDB9LE electronic type residual current operated circuit breakers combine the following functions:

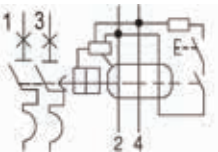
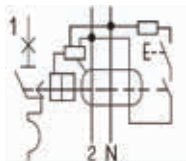
- Overload Protection
- Protection against short-circuit current
- Protection against indirect currents
- Additional protection for users against direct contacts (30mA)
- Protection for electrical installations against insulation faults (fire hazard, etc)
- Isolation

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Product	Breaking capacity	Frame	Poles	Tripping type	Rated current	Residual current
HDB9LE	N	63A	2	C	20	S
	N:6kA	32A:32A 63A:63A	1:1P+N 2:2P 3:3P 4:4P 6:3P+N	C:CType	6:6A 10:10A ... 63:63A	S:30mA Y:100mA T:300mA

Order Information

Pole	Voltage (V)	Breaking Capacity	Sensitivity (mA)	Frame Size	Rated Current (A)	Reference	
						C curve	
1P+N	230	6kA	30	32	6	HDB9LEN32A1C6S	
					10	HDB9LEN32A1C10S	
					16	HDB9LEN32A1C16S	
					20	HDB9LEN32A1C20S	
					25	HDB9LEN32A1C25S	
					32	HDB9LEN32A1C32S	
					63	40	HDB9LEN63A1C40S
						50	HDB9LEN63A1C50S
						63	HDB9LEN63A1C63S
						63	HDB9LEN63A1C63S
2P	230	6kA	30	32	6	HDB9LEN32A2C6S	
					10	HDB9LEN32A2C10S	
					16	HDB9LEN32A2C16S	
					20	HDB9LEN32A2C20S	
					25	HDB9LEN32A2C25S	
					32	HDB9LEN32A2C32S	
					63	40	HDB9LEN63A2C40S
						50	HDB9LEN63A2C50S
						63	HDB9LEN63A2C63S
						63	HDB9LEN63A2C63S

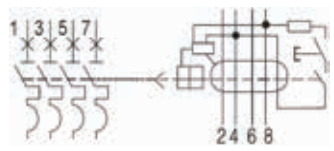
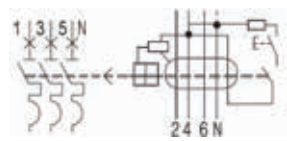
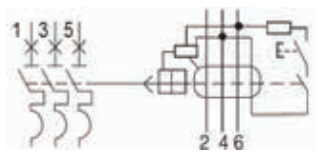


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Pole	Voltage (V)	Breaking Capacity	Sensitivity (mA)	Frame Size	Rated Current (A)	Reference					
						C curve					
3P	400	6kA	30	32	6	HDB9LEN32A3C6S					
					10	HDB9LEN32A3C10S					
					16	HDB9LEN32A3C16S					
					20	HDB9LEN32A3C20S					
					25	HDB9LEN32A3C25S					
					32	HDB9LEN32A3C32S					
				63	40	HDB9LEN63A3C40S					
					50	HDB9LEN63A3C50S					
					63	HDB9LEN63A3C63S					
					3P+N	400	6kA	30	32	6	HDB9LEN32A6C6S
										10	HDB9LEN32A6C10S
										16	HDB9LEN32A6C16S
20	HDB9LEN32A6C20S										
25	HDB9LEN32A6C25S										
32	HDB9LEN32A6C32S										
63	40	HDB9LEN63A6C40S									
	50	HDB9LEN63A6C50S									
	63	HDB9LEN63A6C63S									
	4P	400	6kA	30					32	6	HDB9LEN32A4C6S
										10	HDB9LEN32A4C10S
										16	HDB9LEN32A4C16S
20					HDB9LEN32A4C20S						
25					HDB9LEN32A4C25S						
32					HDB9LEN32A4C32S						
63					40	HDB9LEN63A4C40S					
					50	HDB9LEN63A4C50S					
					63	HDB9LEN63A4C63S					



Final Distribution



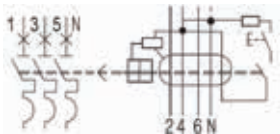
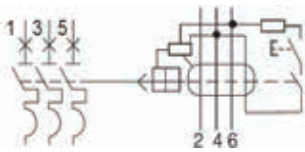
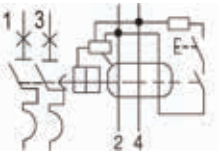
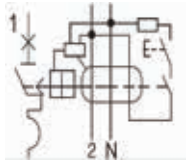
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Order Information

Pole	Voltage (V)	Breaking Capacity	Sensitivity (mA)	Frame Size	Rated Current (A)	Reference	
						C curve	
1P+N	230	6kA	100	32	6	HDB9LEN32A1C6Y	
					10	HDB9LEN32A1C10Y	
					16	HDB9LEN32A1C16Y	
					20	HDB9LEN32A1C20Y	
					25	HDB9LEN32A1C25Y	
					32	HDB9LEN32A1C32Y	
					63	40	HDB9LEN63A1C40Y
						50	HDB9LEN63A1C50Y
						63	HDB9LEN63A1C63Y
2P	230	6kA	100	32	6	HDB9LEN32A2C6Y	
					10	HDB9LEN32A2C10Y	
					16	HDB9LEN32A2C16Y	
					20	HDB9LEN32A2C20Y	
					25	HDB9LEN32A2C25Y	
					32	HDB9LEN32A2C32Y	
					63	40	HDB9LEN63A2C40Y
						50	HDB9LEN63A2C50Y
						63	HDB9LEN63A2C63Y
3P	400	6kA	100	32	6	HDB9LEN32A3C6Y	
					10	HDB9LEN32A3C10Y	
					16	HDB9LEN32A3C16Y	
					20	HDB9LEN32A3C20Y	
					25	HDB9LEN32A3C25Y	
					32	HDB9LEN32A3C32Y	
					63	40	HDB9LEN63A3C40Y
						50	HDB9LEN63A3C50Y
						63	HDB9LEN63A3C63Y
3P+N	400	6kA	100	32	6	HDB9LEN32A6C6Y	
					10	HDB9LEN32A6C10Y	
					16	HDB9LEN32A6C16Y	
					20	HDB9LEN32A6C20Y	
					25	HDB9LEN32A6C25Y	
					32	HDB9LEN32A6C32Y	
					63	40	HDB9LEN63A6C40Y
						50	HDB9LEN63A6C50Y
						63	HDB9LEN63A6C63Y

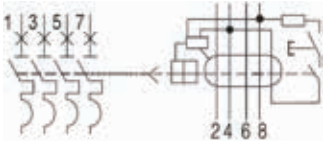


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Pole	Voltage (V)	Breaking Capacity	Sensitivity (mA)	Frame Size	Rated Current (A)	Reference
						C curve
4P	400	6kA	100	32	6	HDB9LEN32A4C6Y
					10	HDB9LEN32A4C10Y
					16	HDB9LEN32A4C16Y
					20	HDB9LEN32A4C20Y
					25	HDB9LEN32A4C25Y
					32	HDB9LEN32A4C32Y
				63	40	HDB9LEN63A4C40Y
					50	HDB9LEN63A4C50Y
					63	HDB9LEN63A4C63Y



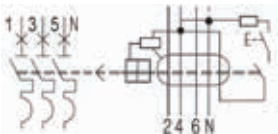
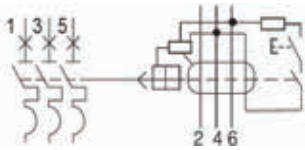
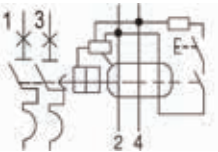
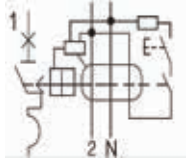
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Pole	Voltage (V)	Breaking Capacity	Sensitivity (mA)	Frame Size	Rated Current (A)	Reference	
						C curve	
1P+N	230	6kA	300	32	6	HDB9LEN32A1C6T	
					10	HDB9LEN32A1C10T	
					16	HDB9LEN32A1C16T	
					20	HDB9LEN32A1C20T	
					25	HDB9LEN32A1C25T	
					32	HDB9LEN32A1C32T	
					63	40	HDB9LEN63A1C40T
						50	HDB9LEN63A1C50T
						63	HDB9LEN63A1C63T
2P	230	6kA	300	32	6	HDB9LEN32A2C6T	
					10	HDB9LEN32A2C10T	
					16	HDB9LEN32A2C16T	
					20	HDB9LEN32A2C20T	
					25	HDB9LEN32A2C25T	
					32	HDB9LEN32A2C32T	
					63	40	HDB9LEN63A2C40T
						50	HDB9LEN63A2C50T
						63	HDB9LEN63A2C63T
3P	400	6kA	300	32	6	HDB9LEN32A3C6T	
					10	HDB9LEN32A3C10T	
					16	HDB9LEN32A3C16T	
					20	HDB9LEN32A3C20T	
					25	HDB9LEN32A3C25T	
					32	HDB9LEN32A3C32T	
					63	40	HDB9LEN63A3C40T
						50	HDB9LEN63A3C50T
						63	HDB9LEN63A3C63T
3P+N	400	6kA	300	32	6	HDB9LEN32A6C6T	
					10	HDB9LEN32A6C10T	
					16	HDB9LEN32A6C16T	
					20	HDB9LEN32A6C20T	
					25	HDB9LEN32A6C25T	
					32	HDB9LEN32A6C32T	
					63	40	HDB9LEN63A6C40T
						50	HDB9LEN63A6C50T
						63	HDB9LEN63A6C63T

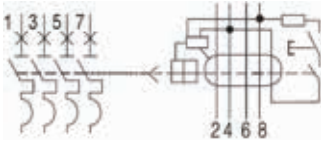


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Pole	Voltage (V)	Breaking Capacity	Sensitivity (mA)	Frame Size	Rated Current (A)	Reference
						C curve
4P	400	6kA	300	32	6	HDB9LEN32A4C6T
					10	HDB9LEN32A4C10T
					16	HDB9LEN32A4C16T
					20	HDB9LEN32A4C20T
					25	HDB9LEN32A4C25T
				63	32	HDB9LEN32A4C32T
					40	HDB9LEN63A4C40T
					50	HDB9LEN63A4C50T
					63	HDB9LEN63A4C63T



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Technical Data

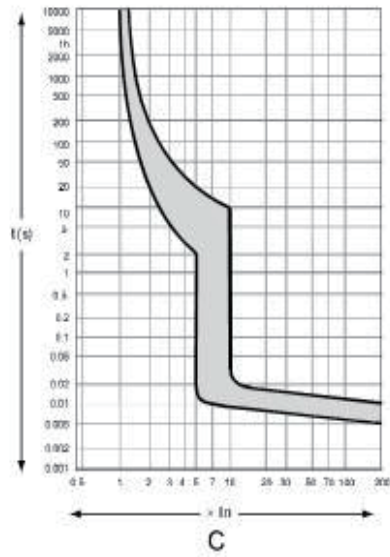
RCBO	HDB9LE Residual Current Operated Circuit Breaker			
Electrical Features	Standard	IEC61009-1		
	Certificate	CE RoHS		
	Electronic Type	AC		
	Poles	1P+N, 2P, 3P, 3P+N, 4P		
	Rated Current In	6, 10, 16, 20, 25, 32, 40, 50, 63A		
	Rated Voltage Ue	230V AC for 1P+N/2P, 400V AC for 3P/3P+N/4P		
	Insulation Voltage Ui	500V		
	Breaking Capacity	6kA		
	Sensitivity	30mA, 100mA, 300mA		
	Frequency	50Hz		
Tripping Curve (see following tripping curve picture)				
C Curve: The magnetic release operates between 5 and 10 In				
Mechanical Features	Electrical Durability	10000		
	Mechanical Durability	20000		
	Protection Degree	IP20		
	Tropicalization	Treatment 2		
	Operating temperature	-30°C~+70°C		
Connection	6-63A, 25mm ²			
Installation	Rated current(A)	Screw	Rated Torque (Nm)	Maximum Ultimate Torque (Nm)
	6-63	M5	2.0	2.5
Mounting	35mm Din-rail			
Accessories	Contact Accessory:	OF		
	Fault-indicating Accessory:	SD		
	Shunt-Trip Release:	MX+OF		

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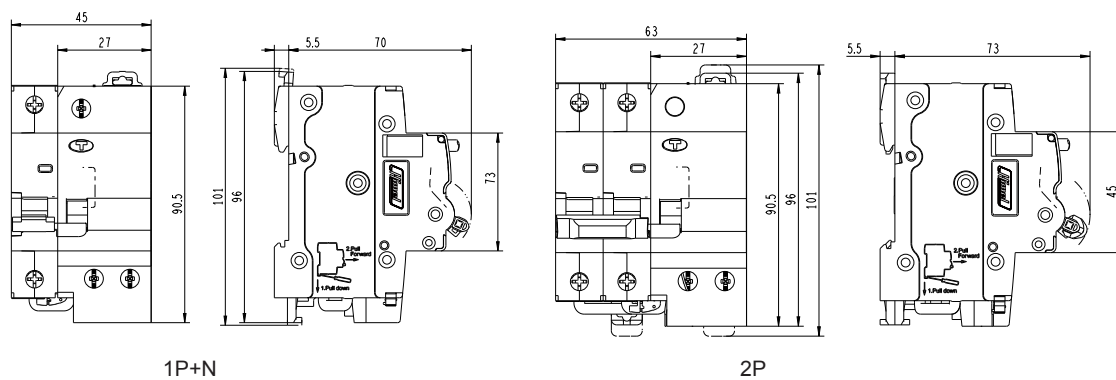


Tripping Curve



Overall Dimensions

32A Frame

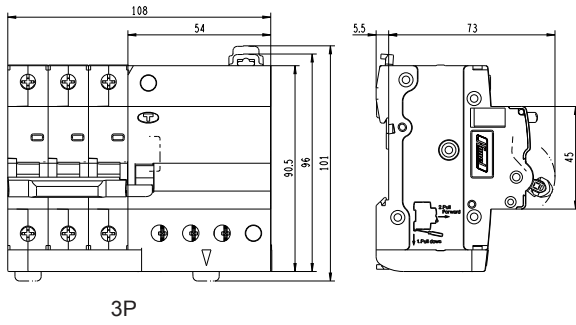


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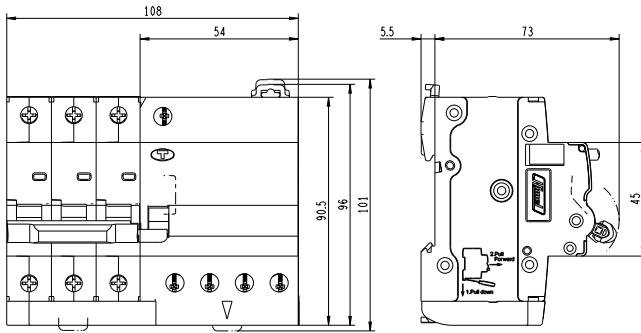
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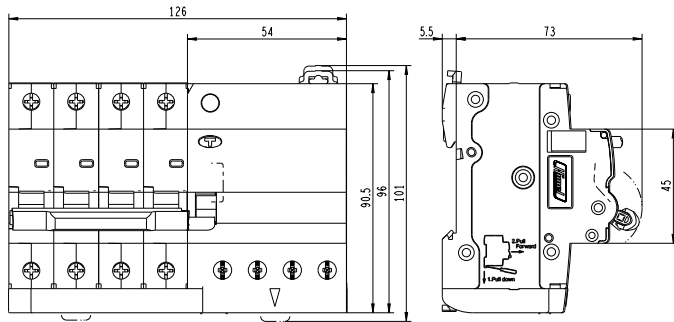
Overall Dimensions



3P



3P+N



4P

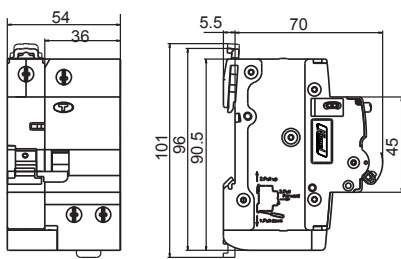
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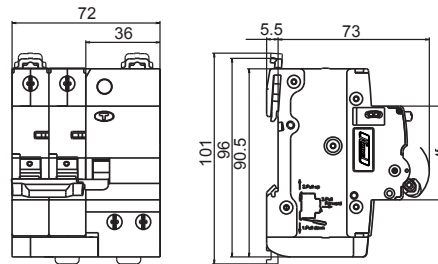


Overall Dimensions

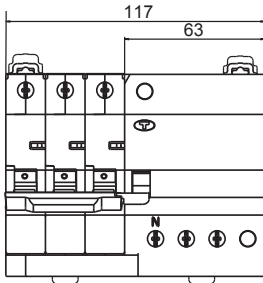
63A Frame



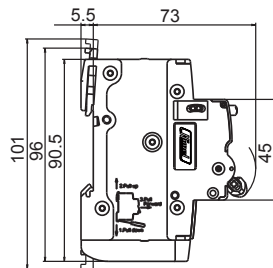
1P+N



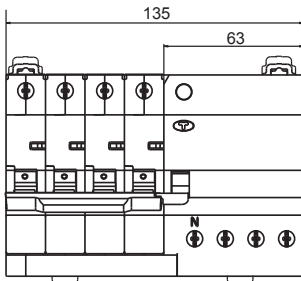
2P



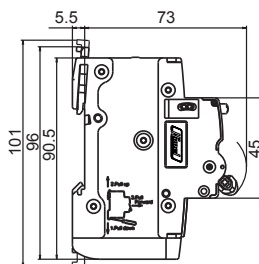
3P



3P+N



4P



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Accessories



SD

+



OF

+



MX+OF

+

