

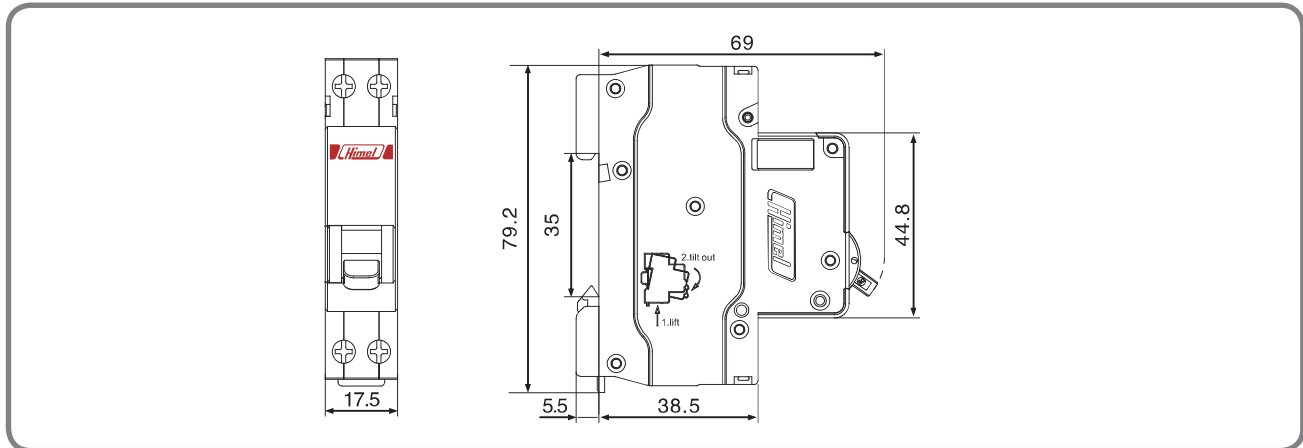
# HDB3wPLE Phase Line + Neutral Line Residual Current Operated Circuit Breaker

**3SERIES**  
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Functions and Features  
IEC61009-1



## HDB3wPLE Phase Line + Neutral Line Circuit Breaker



**HDB3wPLE phase line + neutral line residual current operated circuit breaker has the following functions:**

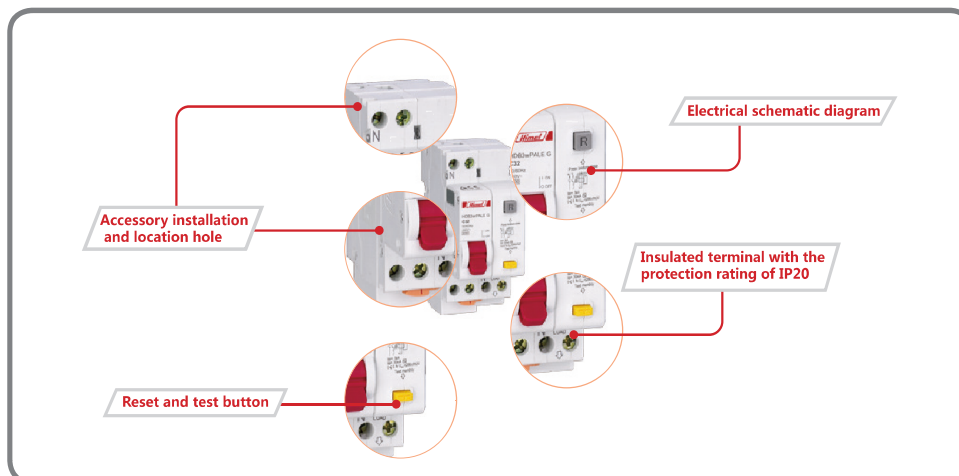
- Short circuit protection
- Overload protection
- Isolating function
- Leakage protection function
- Overvoltage protection function

### Main Features

Rated operating voltage (V)	1P+N: 240AC
Rated current (A)	6-40
Rated frequency (Hz)	50/60
Poles	1P+N
Breaking capacity (kA)	3,4,5
Rated residual operating current (mA)	30
Over-voltage protection function	280±5% AC



### Product Details Display



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## Electrical characteristics

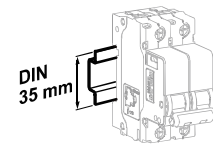
Rated insulation voltage $U_i$	(V)	250 (phase-to-ground) / 500 (phase-to-phase)
Maximum working voltage $U_{Bmax}$ 1P+N	(V)	240AC
Rated short-circuit capacity $I_{cn}$ (IEC/EN61009-1)	(KA)	3,4,5
Rated impulse withstand voltage $U_{imp}$ (1.2/50)	(KA)	4
Dielectric test voltage		2kV (50/60Hz 1 minute)
Isolating function		Available
Pollution class		2
Electric shock protection grade		II
Tripping type		Thermal magnetic tripping
Thermal magnetic trip characteristics C curve (5In~10In)		
D curve (10In~14In)		
Electrical and mechanical accessories		

## Mechanical characteristics

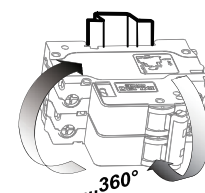
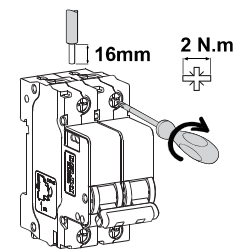
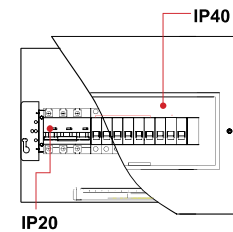
Tripping indication		Residual current action tripping indication is available on HDB3wPLE. Upspring of the reset button indicates leakage trip
Manual control	Over-current fault	The circuit breaker and the residual current operated device reset simultaneously
	Leakage fault	The residual current operated device resets before the circuit breaker resets
Handle		Red, pad printing indicating ON-OFF position
Mechanical life	Times	10000
Protection rating	Times	4000
Protection rating	Installed in distribution box	IP40
	Installed directly	IP20
Mechanical shock resistance		30g, 3 shocks, last for 11ms (Places with no significant vibration or shock)
Anti-vibration (IEC/EN 60068-2-6)		Places with no significant vibration or shock
Damp and hot resistance (IEC 60068-2)	Damp and hot °C /RH	Category 2, 28 cycles Relative humidity 90%~96% at 55°C Relative humidity 90%~100% at 25°C
Reference ambient temperature	°C	30°C
Operating ambient temperature (daily mean temperature ≤ +35°)	°C	-20°C ~+60°C
Storage temperature	°C	-40°C ~+70°C

## Installation Features

Terminal type		U Terminals
Maximum wiring capacity	(A)	Current ratings 6-40:16mm <sup>2</sup>
Maximum ultimate torque	(A)	Current ratings 6-40:2N.m
Tools		Cross head screwdriver or flathead screwdriver
Installation		Installed on standard DIN guide rail (35mm)
Line incoming mode		Top incoming



Installed on 35mm standard guide rail



Flexible installation direction

Final Distribution



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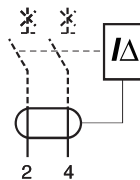
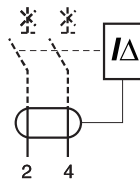
## HDB3wPLE Phase Line + Neutral Line Residual Current Operated Circuit Breaker

Product name	Breaking capacity	Trip type	Rated current	Residual current	Other functions
HDB3wPLE	Breaking capacity ↓ 3kA 4.5kA	C ↓ C: C D: D	6 ↓ 6: 6A 10: 10A 16: 16A 20: 20A 25: 25A 32: 32A 40: 40A	↓ Default: 30mA	G ↓ Default: No over-voltage protection G: Overvoltage protection

Note: Only specifications marked with asterisk symbol have over-voltage function.



HDB3wPLE phase line + neutral line Residual current operated circuit breaker	Type	Rated current	Trip type	
			C	D
3kA	1P+N	6	HDB3wPLEAC6	HDB3wPLEAD6
			HDB3wPLEAC10	HDB3wPLEAD10
		16	HDB3wPLEAC16	HDB3wPLEAD16
			HDB3wPLEAC20	HDB3wPLEAD20
		25	HDB3wPLEAC25	HDB3wPLEAD25
			HDB3wPLEAC32	HDB3wPLEAD32
		40	HDB3wPLEAC40	HDB3wPLEAD40
		6	HDB3wPLEAC6G	
			HDB3wPLEAC10G	
		16	HDB3wPLEAC16G	
			HDB3wPLEAC20G	
		25	HDB3wPLEAC25G	
			HDB3wPLEAC32G	
40	HDB3wPLEAC40G			
4.5kA	1P+N	6	HDB3wPLEC6	
			HDB3wPLEC10	HDB3wPLED10
		16	HDB3wPLEC16	HDB3wPLED16
			HDB3wPLEC20	HDB3wPLED20
		25	HDB3wPLEC25	HDB3wPLED25
			HDB3wPLEC32	HDB3wPLED32
		40	HDB3wPLEC40	HDB3wPLED40
		6	HDB3wPLEC10G	
			HDB3wPLEC16G	
		16	HDB3wPLEC20G	
			HDB3wPLEC25G	
		25	HDB3wPLEC32G	
			HDB3wPLEC40G	
40	HDB3wPLEC6G			



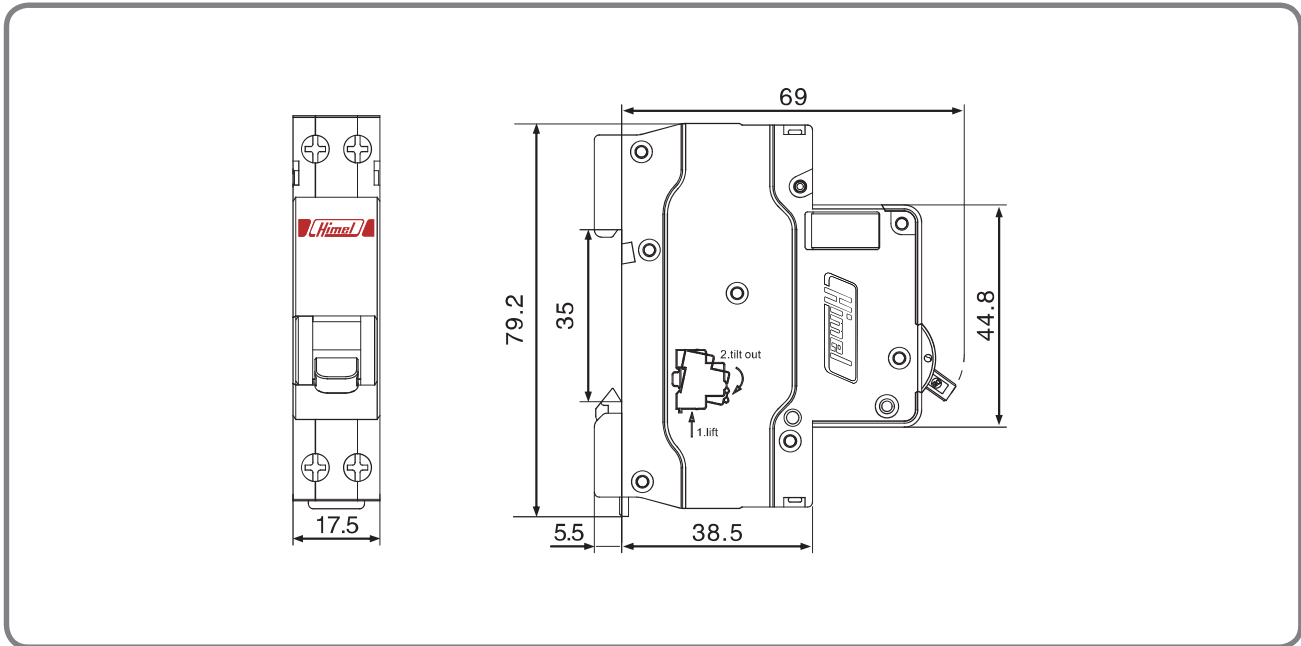
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Final Distribution

