

HDB3wLE-125 Molded Case Residual Current Operated Circuit Breaker

Functions and Features
IEC60947-2

3SERIES
MORE VALUE FOR PRICE!



HDB3wLE-125 molded case residual current operated circuit breaker has the following features

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

Main Features

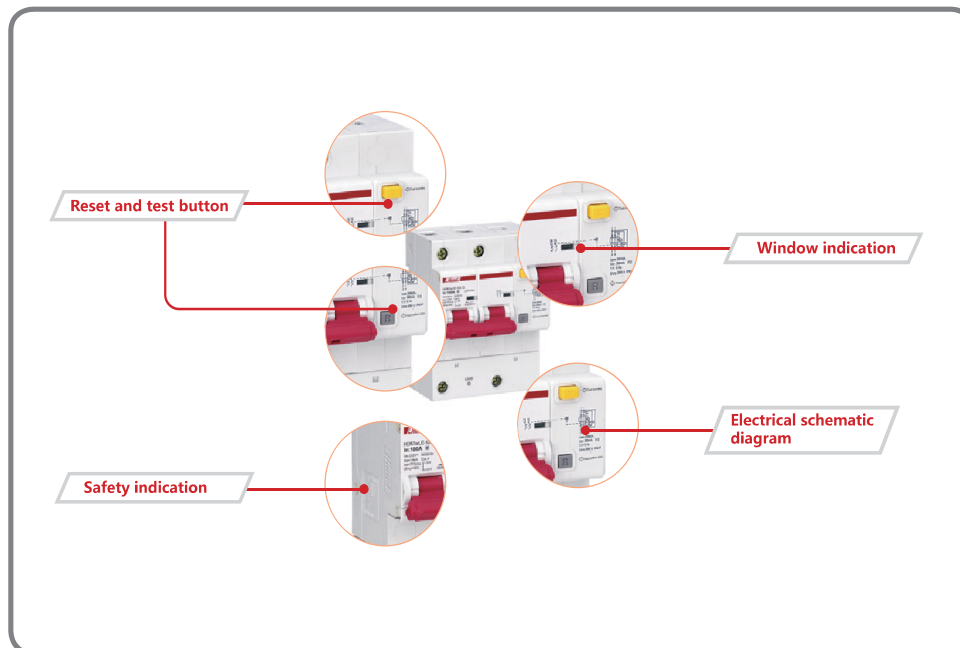
Rated operating voltage (V)	1P+N,2P: 230AC
	3P,3P+N,4P: 400AC
Rated current (A)	63-125
Rated frequency (Hz)	50/60
Poles	1P+N,2P,3P,3P+N,4P
Breaking capacity (kA)	10
Rated residual operating current (mA)	30,50,75,100,300
Overvoltage protection function (V)	280±5% AC (1P+N,2P 30mA products with overvoltage protection function)



Final Distribution



Product Details Display



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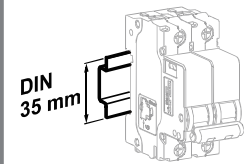


Electrical Characteristics

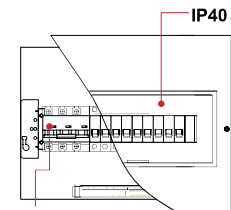
Rated insulation voltage U_i		(V)	250 (phase-to-ground) / 500 (phase-to-phase)
Maximum working voltage U_{Bmax}	1P+N,2P	(V)	230 AC
	3P,3P+N,4P	(V)	400 AC
Rated short-circuit capacity I_{cn} (IEC/EN60898)		(KA)	10
Rated impulse withstand voltage U_{imp} (1.2/50)		(KA)	4
Dielectric test voltage			2kV (50/60HZ, 1 minute)
Isolating function			Available
Pollution class			2
Tripping type			Thermal magnetic tripping
Thermal magnetic trip characteristics	C curve ($I_i=8.5I_n$)		
	D curve ($I_i=12I_n$)		
Electrical and mechanical accessories			

Mechanical Characteristics

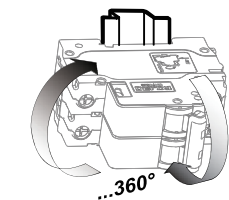
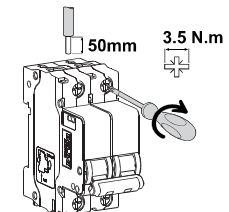
Tripping indication	Residual current action tripping indication is available on HDB3wLE-100. Upspring of the reset button indicates leakage trip		
Manual control	Over-current fault	The circuit breaker and the residual current action device reset simultaneously	
	Leakage fault	The residual current operated device resets before the circuit breaker resets	
Handle	Red, pad printing indicating ON-OFF position		
Mechanical life	Times	8500	
Electrical life	Times	3000	
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
		°C	30°C
Operating ambient temperature (daily mean temperature $\leq +35^\circ\text{C}$)	°C	-20°C ~+60°C	
Storage temperature	°C	-40°C ~+70°C	



Installed on 35mm standard guide rail



IP20



Flexible installation direction

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Installation Features

Terminal type	U Terminals	
Maximum wiring capacity	(A)	Current ratings 63-125: 50mm ²
Maximum ultimate torque	(A)	Current ratings 63-125: 3.5N.m
Tools	Cross head screwdriver or flathead screwdriver	
Installation	Installed on standard DIN guide rail (35mm)	
Line incoming mode	Top incoming	

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Product name	Poles	Trip type	Rated current	Residual current	Other functions
HDB3wLE-125	1	C	63		G
	↓	↓	↓	↓	↓
	1: 1P+N	C: C	63: 63A	Default: 30mA	Default: No
	2: 2P	D: D	80: 80A	R50: 50mA	over-voltage
	3: 3P		100: 100A	R75: 75mA	protection
	6: 3P+N		125: 125A	R100: 100mA	G: Overvoltage
	4: 4P			R300: 300mA	protection



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

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HDB3wLE-125 molded case residual current operated circuit breaker	Type	Rated current	Trip type		
			C	D	
		63	HDB3wLE1251C63	HDB3wLE1251D63	HDB3wLE1251D63Y
		80	HDB3wLE1251C80	HDB3wLE1251D80	HDB3wLE1251D80Y
		100	HDB3wLE1251C100	HDB3wLE1251D100	HDB3wLE1251D100Y
		125	HDB3wLE1251C125	HDB3wLE1251D125	HDB3wLE1251D125Y
		63	HDB3wLE1252C63	HDB3wLE1252D63	HDB3wLE1252D63Y
		80	HDB3wLE1252C80	HDB3wLE1252D80	HDB3wLE1252D80Y
		100	HDB3wLE1252C100	HDB3wLE1252D100	HDB3wLE1252D100Y
		125	HDB3wLE1252C125	HDB3wLE1252D125	HDB3wLE1252D125Y
		63	HDB3wLE1253C63	HDB3wLE1253D63	HDB3wLE1253D63Y
		80	HDB3wLE1253C80	HDB3wLE1253D80	HDB3wLE1253D80Y
		100	HDB3wLE1253C100	HDB3wLE1253D100	HDB3wLE1253D100Y
		125	HDB3wLE1253C125	HDB3wLE1253D125	HDB3wLE1253D125Y
		63	HDB3wLE1256C63	HDB3wLE1256D63	HDB3wLE1256D63Y
		80	HDB3wLE1256C80	HDB3wLE1256D80	HDB3wLE1256D80Y
		100	HDB3wLE1256C100	HDB3wLE1256D100	HDB3wLE1256D100Y
		125	HDB3wLE1256C125	HDB3wLE1256D125	HDB3wLE1256D125Y
		63	HDB3wLE1254C63	HDB3wLE1254D63	HDB3wLE1254D63Y
		80	HDB3wLE1254C80	HDB3wLE1254D80	HDB3wLE1254D80Y
		100	HDB3wLE1254C100	HDB3wLE1254D100	HDB3wLE1254D100Y
		125	HDB3wLE1254C125	HDB3wLE1254D125	HDB3wLE1254D125Y

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Trip type			
D			Over voltage
HDB3wLE1251D63T	HDB3wLE1251D63W	HDB3wLE1251D63Q	HDB3wLE1251D63G
HDB3wLE1251D80T	HDB3wLE1251D80W	HDB3wLE1251D80Q	HDB3wLE1251D80G
HDB3wLE1251D100T	HDB3wLE1251D100W	HDB3wLE1251D100Q	HDB3wLE1251D100G
HDB3wLE1251D125T	HDB3wLE1251D125W	HDB3wLE1251D125Q	HDB3wLE1251D125G
HDB3wLE1252D63T	HDB3wLE1252D63W	HDB3wLE1252D63Q	HDB3wLE1252D63G
HDB3wLE1252D80T	HDB3wLE1252D80W	HDB3wLE1252D80Q	HDB3wLE1252D80G
HDB3wLE1252D100T	HDB3wLE1252D100W	HDB3wLE1252D100Q	HDB3wLE1252D100G
HDB3wLE1252D125T	HDB3wLE1252D125W	HDB3wLE1252D125Q	HDB3wLE1252D125G
HDB3wLE1253D63T	HDB3wLE1253D63W	HDB3wLE1253D63Q	
HDB3wLE1253D80T	HDB3wLE1253D80W	HDB3wLE1253D80Q	
HDB3wLE1253D100T	HDB3wLE1253D100W	HDB3wLE1253D100Q	
HDB3wLE1253D125T	HDB3wLE1253D125W	HDB3wLE1253D125Q	
HDB3wLE1256D63T	HDB3wLE1256D63W	HDB3wLE1256D63Q	
HDB3wLE1256D80T	HDB3wLE1256D80W	HDB3wLE1256D80Q	
HDB3wLE1256D100T	HDB3wLE1256D100W	HDB3wLE1256D100Q	
HDB3wLE1256D125T	HDB3wLE1256D125W	HDB3wLE1256D125Q	
HDB3wLE1254D63T	HDB3wLE1254D63W	HDB3wLE1254D63Q	
HDB3wLE1254D80T	HDB3wLE1254D80W	HDB3wLE1254D80Q	
HDB3wLE1254D100T	HDB3wLE1254D100W	HDB3wLE1254D100Q	
HDB3wLE1254D125T	HDB3wLE1254D125W	HDB3wLE1254D125Q	



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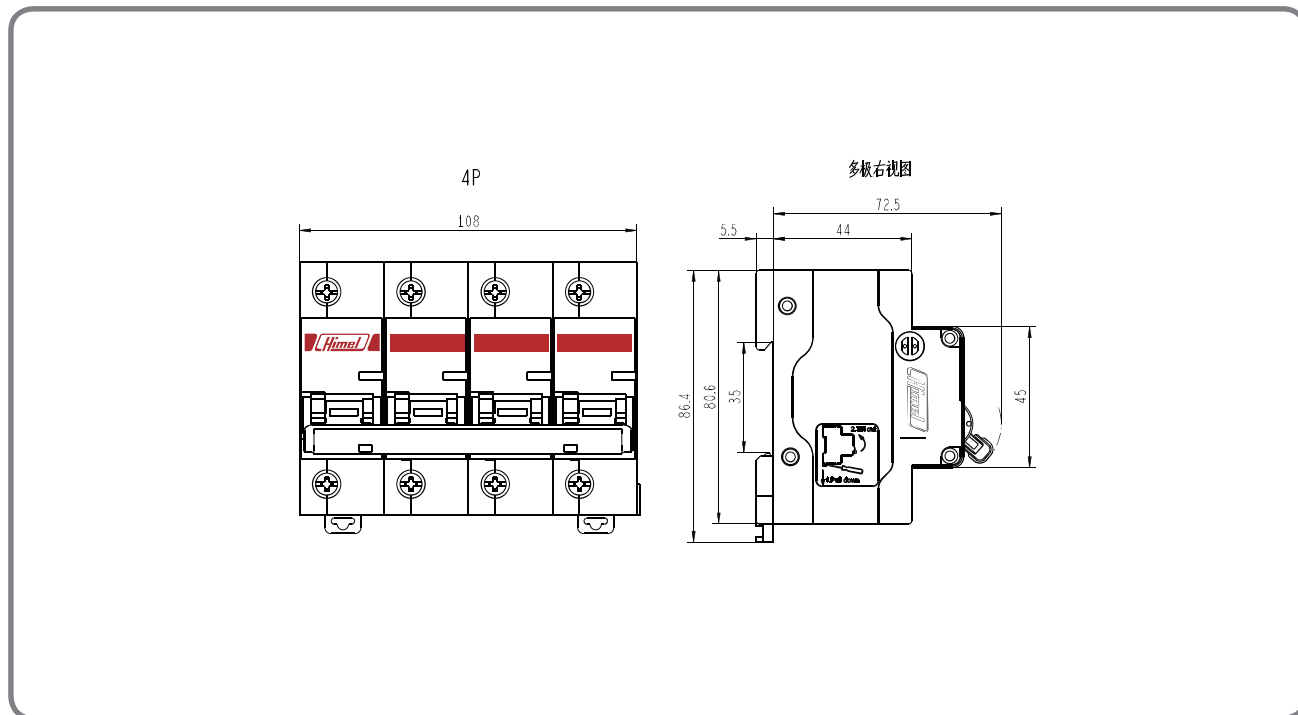
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