

HDB3wLE Residual Current Operated Circuit Breaker

Standard: IEC61009-1



Function

HDB3wLE Residual Current Operated Circuit Breaker has the following features:

- Short circuit protection
- Overload protection
- Isolating function
- Earthleakage protection function
- Residual Current Operated Circuit Breaker over voltage protection function

Main Features

Rated operating voltage V	1P+N, 2P: 230AC 3P, 3P+N, 4P 400 AC
Rated current A	6-63
Rated frequency Hz	50/60
Number of poles	1P+N, 2P, 3P, 3P+N, 4P
Breaking capacity kA	6
Rated residual operating current mA	30, 50, 75, 100, 300
Over-voltage protection function	280±5% AC (for products only 1P+N,2P,C curve)



Product Details Display



HDB3wLE Residual Current Operated Circuit Breaker

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Functions and Features

Electrical Characteristics

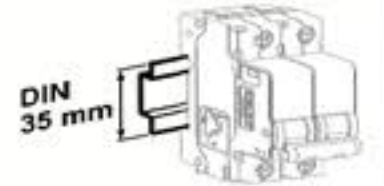
Nominal insulation voltage U_i	(V)	250 (phase-to-ground) 500 (phase-to-phase)
Maximum working voltage U_{Bmax}	1P+N, 2P (V) 3P, 3P+N, 4P (V)	230 AC 400 AC
Rated short-circuit capacity I_{cn} (IEC/EN60898)	(kA)	6
Rated impulse withstand voltage U_{imp} (1.2/50)	(kV)	4
Dielectric test voltage		2kV (50/60HZ, 1min)
Isolating function		Available
Pollution class		2
Electric shock protection grade		II
Trip type:		Thermal magnetic trip
Thermal magnetic trip characteristics:	Type B curve (3 I_n ~5 I_n) Type C curve (5 I_n ~10 I_n) Type D curve (10 I_n ~14 I_n)	- - -
Electrical and mechanical accessories		-

Mechanical Characteristics

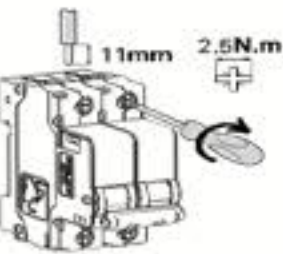
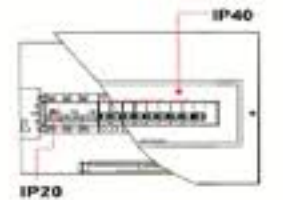
Trip indication	Upspring of the reset button indicates leakage trip
Manual control	Two reset modes are allowed for the handle
Overcurrent fault	The circuit breaker and the residual current operated device reset simultaneously
Leakage fault	The residual current operated device resets before the circuit breaker resets
Handle	Red, pad printing indicating ON-OFF position
Mechanical endurance	Times 25,000
Electrical endurance	Times 6,000
Protection grade	Installed in distribution box IP40 Installed directly IP20
Mechanical shock resistance	30g, 3 shocks, lasting 11ms (No significant vibration or shock)
Anti-vibration (IEC/EN 60068-2-6)	No significant vibration or shock
High temperature humidity resistance	Category 2, 28 cycles Relative humidity 90%~96% at 55° C Relative humidity 95%~100% at 25° C
Rated ambient temperature	30° C
Operating ambient temperature (daily mean temperature ≤ +35° C)	-20° C~+60° C
Storage temperature	-40° C~+70° C

Installation Features

Terminal form	U terminal
Maximum wiring capacity (A)	Current ratings 6-32:16mm ² Current ratings 40-63:25mm ²
Maximum ultimate torque (A)	Current ratings 6-32:2.5 N.m Current ratings 40-63:3 N.m
Tool	Crosshead screwdriver or flathead screwdriver
Installation	Installed on standard DIN guide rail (35mm)
Line incoming mode	Top



Installed on 35mm standard guide rail



Flexible installation direction