

Model	HB9C	HB9L
		
Product Standard	IEC/EN 60898-1	
Functions	Short circuit protection, Overload protection, Switch , Isolation	
Certification		
Poles	1P, 1P+N, 2P, 3P, 3P+N, 4P	
Thermo-magnetic tripping curves	B, C, D	
Rated currentIn	1A, 2A, 3A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A	
Rated voltageUe	1P: 230/400V; 2P/3P/4P: 400V	
Insulation voltageUi	500V	
Rated impulse withstand voltageUimp	6kV	
Dielectric test voltage	2.5kV	
Rated frequency	50/60Hz	
Rated short-circuit breaking capacityIcn	3/4.5kA(1-63A), 6kA(1-40A)	6kA
Pollution degree	2	
Electrical life	4000	
Mechanical life	10000	
Contact position indicator	Yes	
Connection and Installation		
Protection degree MCB body	IP20	
Protection degree Installed in distribution box	IP40	
Reference temperature for setting of thermal element	30℃	
Ambient temperature (with daily averages≤35℃)	-5 ~ +40℃	
Storage temperature	-25 ~ +70℃	
Maximum altitude	2000m	
Mounting	Din rail 35mm	
Connection	Top and Bottom	
Terminal connection type	Cable	
Wire	1-25mm ²	
Rated torque capacity	2.5N·m	
Combination with Accessories		
Auxiliary contactAUX	No	Yes
Alarm contactALT	No	Yes
Shunt releaseSHT	No	Yes
Under voltage releaseUVT	No	Yes
Overvoltage releaseOVT	No	Yes
Shunt release + AUXSHTA	No	Yes
Over & under - voltage releaseOUVT	No	Yes

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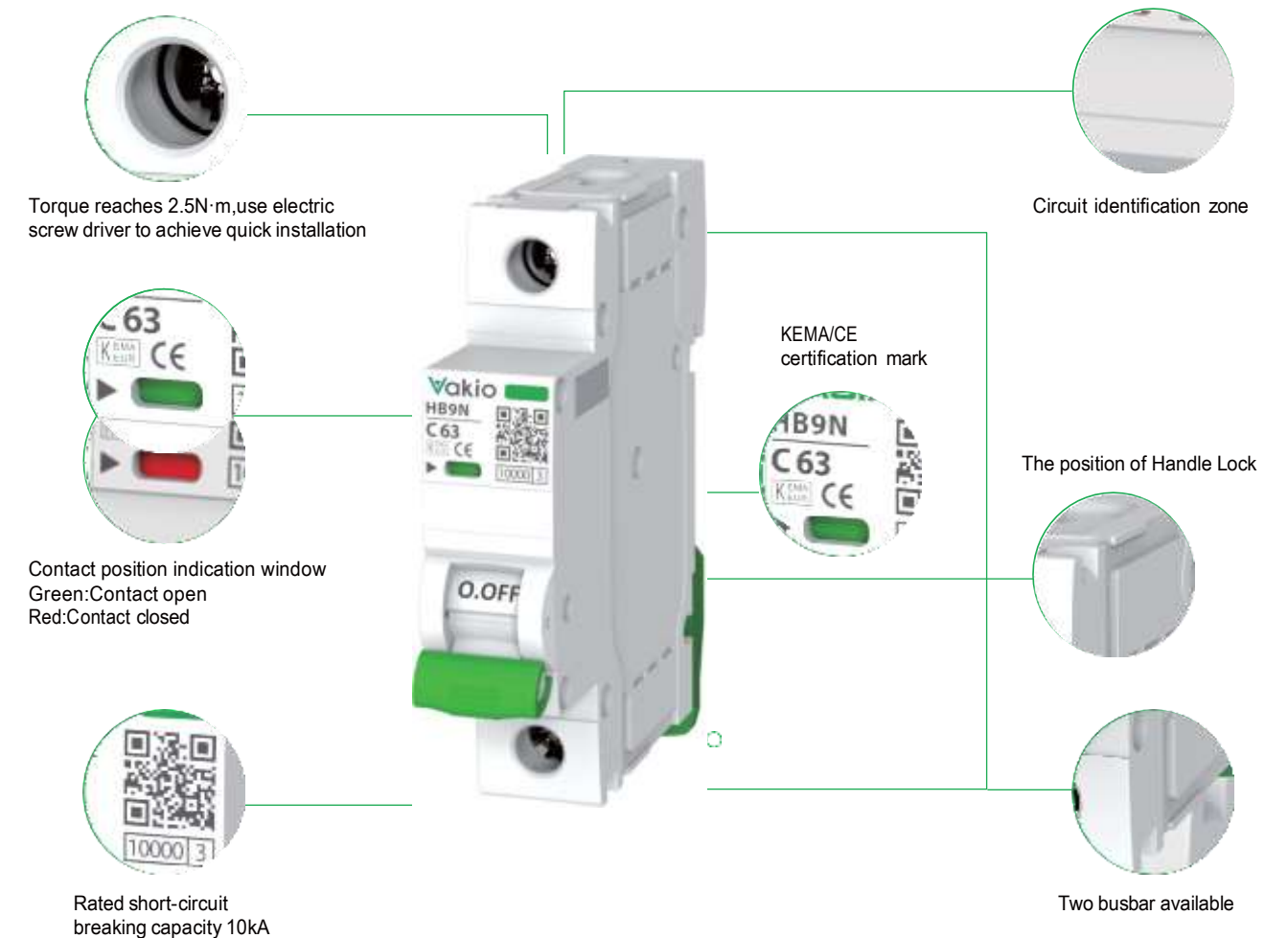
Performance Upgrade

Flame Retardant Materials

H Series

Have the strongest competitive abilities: cool appearance, better performance, much lower price.

- Is fully independent design with three patents.
- Have the same structure among items of 3kA, 4.5kA, 6kA, 10kA with good compatibility, strong standardization and lower cost.
- Novel appearance brings strong visual impact, with more functions.
- Consisting of 4 module systems, conducive to automatic assembly

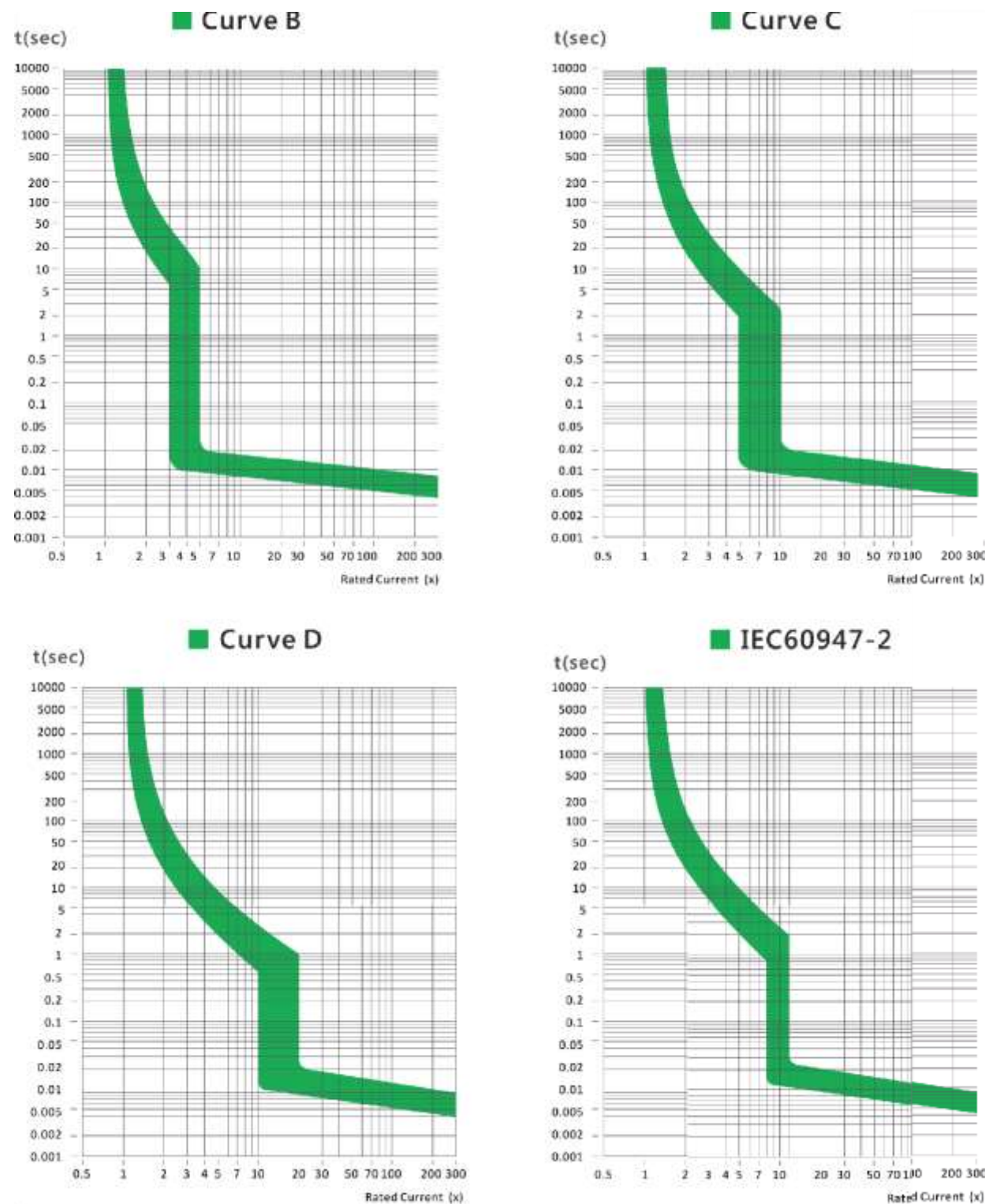


Test	Type	Test current	Initial condition	Limits of tripping or non-tripping time	Result to be obtained	Remarks
a	B, C, D	1,13 / I_n	Cold ^a	$t \leq 1 \text{ h} \quad (I_n \leq 603A)$ $t \leq 2 \text{ h} \quad (I_n \geq 603A)$	No tripping	
b	B, C, D	1,45 / I_n	Immediately following test a	$t \geq 1 \text{ h} \quad (I_n \leq 63A)$ $t \geq 2 \text{ h} \quad (I_n \geq 63A)$	Tripping	Current steadily increased within 5 s
c	B, C, D	2,55 / I_n	Cold ^a	$1 \text{ s} \leq t \leq 60 \text{ s}$ (for $I_n \leq 32A$) $1 \text{ s} \leq t \leq 120 \text{ s}$ (for $I_n \geq 32A$)	Tripping	
d	B C D	3 / I_n 5 / I_n 10 / I_n	Cold ^a	$t \leq 0,1 \text{ s}$	No Tripping	Current established by closing an auxiliary switch
e	B C D	5 / I_n 10 / I_n 20 / I_n ^b	Cold ^a	$t \geq 0,1 \text{ s}$	Tripping	Current established by closing an auxiliary switch

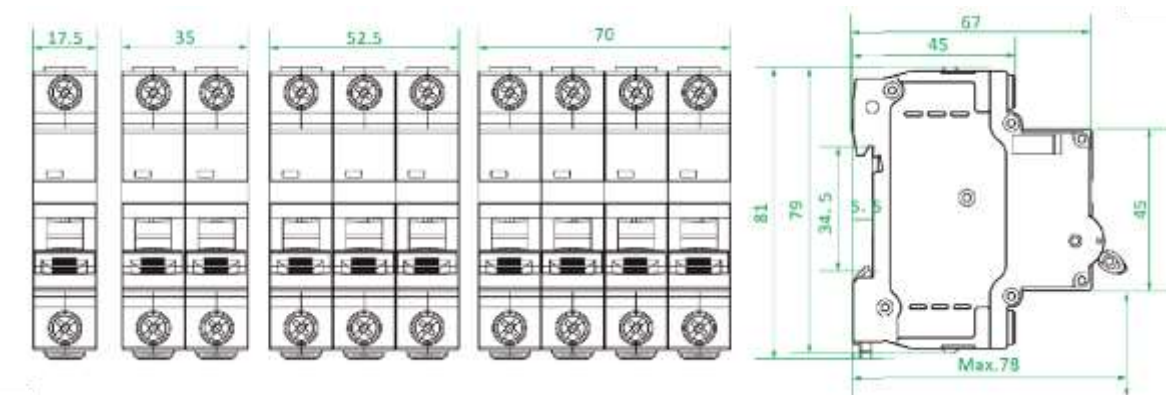
^a The term "cold" means without previous loading, at the reference calibration temperature.

^b 50 / I_n for special cases.

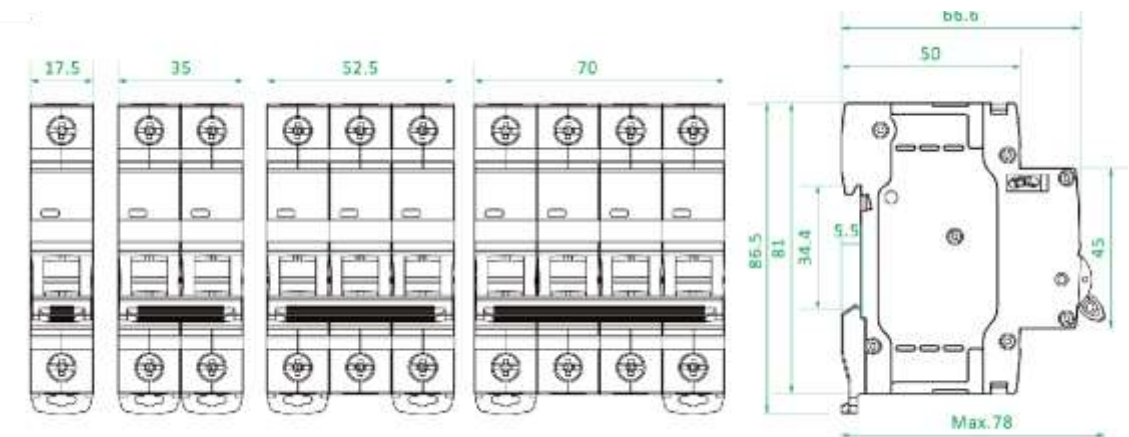
Characteristics Curve



◆ HB9C



◆ HB9L/HB9N



◆ HB9H

