

A9K

MCB, RCCB, Isolator



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Electric™

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We Reduce cost per kWh and create significant energy cost savings for your home, office, industry with our energy efficient products & solutions



We Reduce CO₂ footprints and create great environments in which we live work and play



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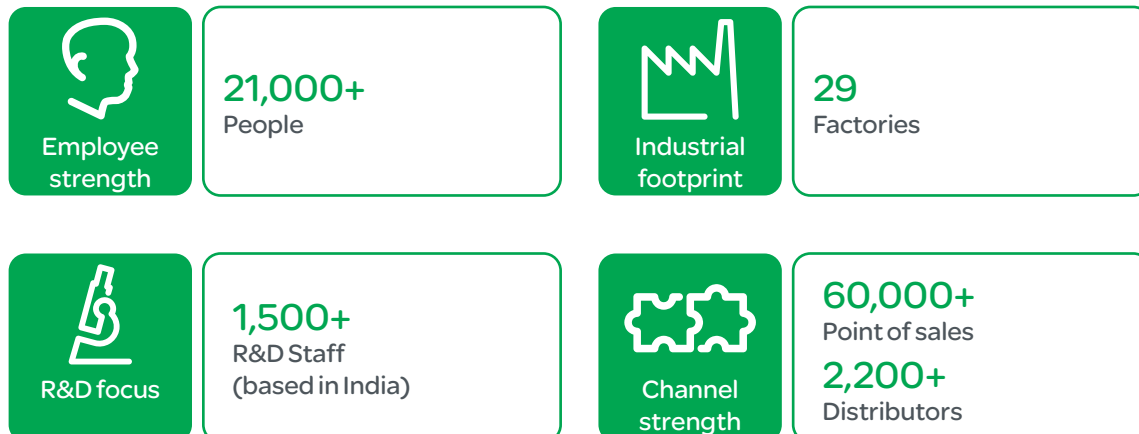
We Realise measurable efficiency and deliver solutions that integrate seamlessly into our environment



We Produce energy locally across the grid allowing India to reshape industries, transform cities and enrich lives

Our vision is to help customers achieve more with less resources in an increasingly connected, distributed, and smart world

Schneider Electric India footprint - A top 3 energy management company in India





IS/IEC 60898-1

IEC/EN 60898-1



■ K60H Biconnect circuit breakers are circuit breakers which combine the following functions:

- circuit protection against short-circuit currents,
- circuit protection against overload currents,
- disconnection, opening and closing.

K60H Biconnect Miniature Circuit Breaker 50Hz

Breaking capacity in short circuit (I _{cn}) as per IEC/EN 60898-1		Service breaking capacity (I _{cs})
Ph/Ph	415 V	
Ph/N	240 V	
Rating (I _n)	1 to 63 A	10000 A

Catalogue numbers

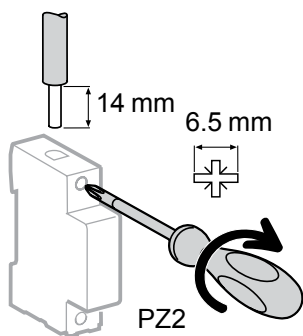
K60H Biconnect Miniature Circuit Breaker

Type	1P		2P		3P		4P	
Auxiliaries	Without auxiliaries							
Rating (I_n)	Curve		Curve		Curve		Curve	
	B	C	B	C	C	C	C	C
1 A	-	A9KF71101	-	A9KF71201	A9KF71301	A9KF71401	A9KF71301	A9KF71401
2 A	-	A9KF71102	-	A9KF71202	A9KF71302	A9KF71402	A9KF71302	A9KF71402
3 A	-	A9KF71103	-	A9KF71203	A9KF71303	A9KF71403	A9KF71303	A9KF71403
4 A	-	A9KF71104	-	A9KF71204	A9KF71304	A9KF71404	A9KF71304	A9KF71404
6 A	A9KF21106	A9KF71106	A9KF21206	A9KF71206	A9KF71306	A9KF71406	A9KF71306	A9KF71406
10 A	A9KF21110	A9KF71110	A9KF21210	A9KF71210	A9KF71310	A9KF71410	A9KF71310	A9KF71410
16 A	A9KF21116	A9KF71116	A9KF21216	A9KF71216	A9KF71316	A9KF71416	A9KF71316	A9KF71416
20 A	A9KF21120	A9KF71120	A9KF21220	A9KF71220	A9KF71320	A9KF71420	A9KF71320	A9KF71420
25 A	A9KF21125	A9KF71125	A9KF21225	A9KF71225	A9KF71325	A9KF71425	A9KF71325	A9KF71425
32 A	A9KF21132	A9KF71132	A9KF21232	A9KF71232	A9KF71332	A9KF71432	A9KF71332	A9KF71432
40 A	-	A9KF71140	-	A9KF71240	A9KF71340	A9KF71440	A9KF71340	A9KF71440
50 A	-	A9KF71150	-	A9KF71250	A9KF71350	A9KF71450	A9KF71350	A9KF71450
63 A	-	A9KF71163	-	A9KF71263	A9KF71363	A9KF71463	A9KF71363	A9KF71463
Width in 18-mm modules	1		2		3		4	
Accessories	Padlocking device cat. no. 26970							

Ordering Information:

Add suffix <BQ> to the Product Reference to get the corresponding Ordering Code
 Contact Schneider Electric Sales Representative or Customer Care Centre to get information on prices and standard pack sizes

Connection



Type	Rating	Tightening torque	Copper cables	
			Rigid	Flexible or with ferrule
K60H Biconnect	1 to 32 A	2 N.m	1 to 25 mm ²	1 to 16 mm ²
	40 to 63 A	3.5 N.m	1 to 35 mm ²	1 to 25 mm ²

Technical data

Main characteristics

Insulation voltage (Ui)	Phase-to-phase	500 V AC	
	Phase-to-neutral	240 V AC	
Voltage rating (Ue)	Phase-to-phase	415 V AC	
	Phase-to-neutral	240 V AC	
Operating Frequency	50Hz		
Rated impulse withstand voltage (Uimp)	4 kV		
Magnetic tripping	B curve	3 to 5 I _n	■
	C curve	5 to 10 I _n	■

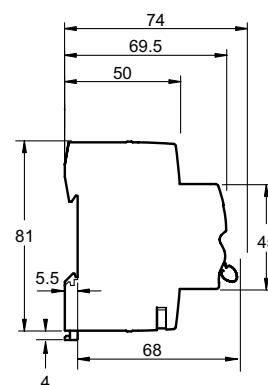
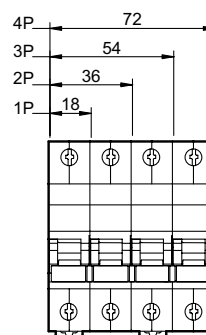
According to EN 60898-1

Limitation class	3		
Rated breaking capacity (I _{cn})	10,000 A		
Service breaking capacity (I _{cs})	75 % I _{cn}		
Rated breaking and making capacity on a single pole (I _{cn1})	I _{cn1} = I _{cn}		

Additional characteristics

Degree of protection (IEC 60529)	Device only	IP20	
	Device in modular enclosure	IP40 Insulation class II	
Line-Load Reversibility	Yes		
Endurance (O-C)	Electrical	≤ 20 A	20,000 cycles
		≥ 25 A	10,000 cycles
	Mechanical	20,000 cycles	
Operating temperature	-5°C to +55°C		

Dimensions (mm)



Weight (g)

Circuit-breaker	
Type	K60H Biconnect
1P	120
2P	240
3P	360
4P	480



IS 12640 (Part 1) IEC/EN 61008-1



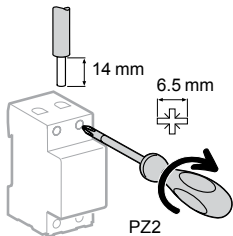
- The ID K Biconnect residual current circuit breakers offer the following functions:
 - protection of persons against electric shock by direct contact (30 mA),
 - protection of persons against electric shock by indirect contact (≥ 100 mA),
 - protection of installations against the risks of fire (300 mA).

Catalogue numbers

ID K Biconnect Residual Current Circuit Breakers				
Type	AC			Width in 18 mm modules
		Sensitivity		
2P 	Rating	30 mA	100 mA	300 mA
	25 A	A9KR11225	A9KR12225	A9KR14225
	40 A	A9KR11240	A9KR12240	A9KR14240
63 A	A9KR11263	A9KR12263	A9KR14263	2
		Sensitivity		
4P 	Rating	30 mA	100 mA	300 mA
	25 A	A9KR11425	A9KR12425	A9KR14425
	40 A	A9KR11440	A9KR12440	A9KR14440
63 A	A9KR11463	A9KR12463	A9KR14463	4
Operating voltage (Ue)	2P	240 V		
	4P	415 V		
Operating frequency	50 Hz			

- Note:**
- 1** Use of 30mA RCCBs is now mandatory for all domestic applications {CEAAmendment regulation 2015*}
 - 2** Use of minimum 100mA RCCBs is now mandatory for all installations {CEAAmendment regulation 2015*}
 - 3** Voltage Independent RCCBs for complete protection - Schneider Electric RCCBs work on current sensing technology and provide protection even at extra low voltages (down to zero volts) and in case of break of neutral.

Connection

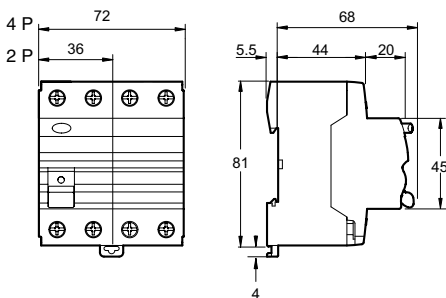


Type	Tightening torque	Copper cables	
		Rigid	Flexible or with ferrule
ID K Biconnect	3.5 N.m	1 to 35 mm ²	1 to 25 mm ²

Technical data

Main characteristics	
Insulation voltage (Ui)	440 V
Rated impulse withstand voltage (Uimp)	4 kV
Conditional rated short-circuit current (Inc/IΔc) With circuit breaker	6000 A
Behaviour in case of voltage drop	Residual current protection down to 0 V according to IEC/EN 61008-1 § 3.3.4
Additional characteristics	
Degree of protection	Device only: IP20 Device in a modular enclosure: IP40 Insulation class II
Operating temperature	AC type: -5°C to +55°C

Dimensions (mm)



Weight (g)

Residual current circuit breakers	
Type	ID K Biconnect
2P	180
4P	350

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* For Measures relating to Safety and Electric supply




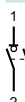


IS/IEC 60947-3

Control and disconnection of on-load electrical circuits already protected against overloads and short-circuits.

Catalogue numbers

SW Biconnect Switch-Disconnectors

Type	Rating (In)	Voltage (Ue)		Width in 18 mm modules
 1P	40 A	240 V AC	A9KS15140	1
	63 A	240 V AC	A9KS15163	
 2P	40 A	415 V AC	A9KS15240	2
	63 A	415 V AC	A9KS15263	
	80 A	415 V AC	A9KS15280	
 3P	40 A	415 V AC	A9KS15340	3
	63 A	415 V AC	A9KS15363	
 4P	40 A	415 V AC	A9KS15440	4
	63 A	415 V AC	A9KS15463	
	80 A	415 V AC	A9KS15480	
Operating frequency			50 Hz	

Technical data

Main characteristics

Insulation voltage (Ui) 500 V AC

Power circuit

Rated impulse withstand voltage (Uimp) 4 kV
 Operating category AC-22 A
 Permissible rated short-time withstand current (Icw) 12 In for 300 ms
 Rated short-circuit closing current (Icm) 40 - 63 A 15 In
 80 A 1 kA

Additional characteristics

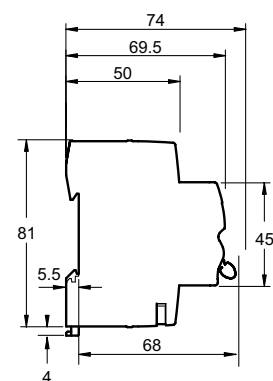
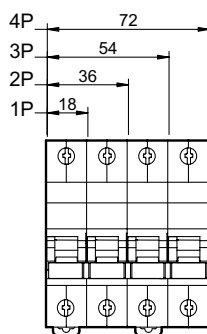
Degree of protection Device only IP20
 Device in modular enclosure IP40
 Endurance (O-C) Mechanical 20,000 cycles
 Electrical 10,000 cycles
 Operating temperature -5°C to +55°C

Weight (g)

Biconnect switch-disconnectors

Type	SW Biconnect
1P	120
2P	240
3P	360
4P	480

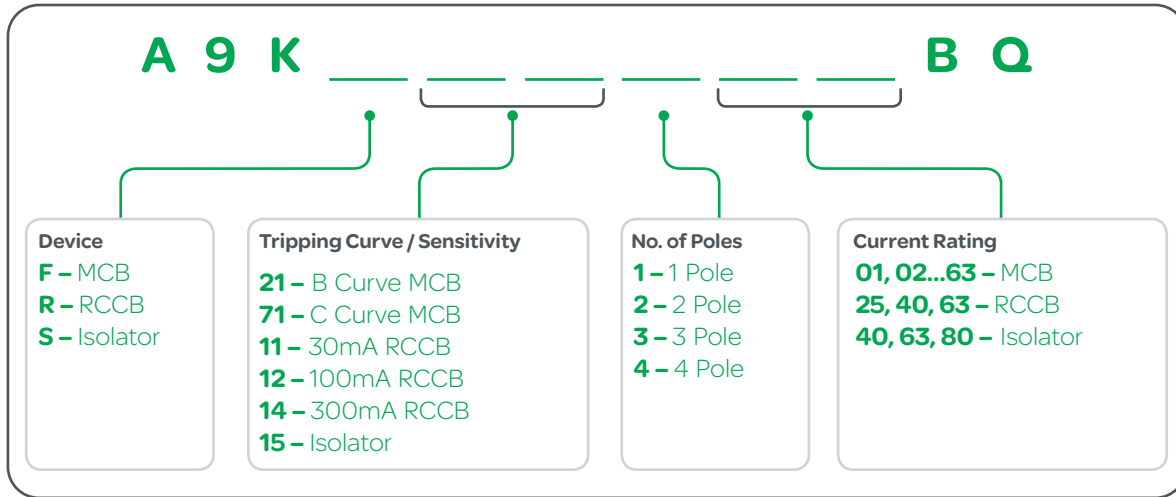
Dimensions (mm)



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Ordering Reference Selection Guide



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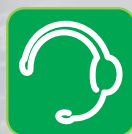


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