

Life Is On

Schneider
Electric

K60 Circuit Breakers

The affordable way to stay safe
from electrocution and electrical overloads

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General contents

Overview

K60 Circuit Breaker Technical Specification.....3

Circuit protection

K60 Biconnect Circuit Breakers.....4

K60N Biconnect Circuit Breakers.....6


K60H Biconnect Circuit Breakers.....7

Earth leakage protection

ID K Biconnect residual current circuit breakers.....8

Overview

K60 Circuit Breaker Technical Specification

				MCB		RCCB				
K60 Circuit Breaker				K60N		K60H		ID K		
Number of poles				1	2-3-4	1	2-3-4	2	4	
Electrical characteristics										
Rated current (A)		In	6-63		6-63		25 - 63		40 - 63	
Rated Insulation Voltage (V)		Ui	440		440		440			
Maximum operational voltage (V)		Ue	AC 50/60 Hz		230	400	230	400	240	415
Fast closing				■		■		■		
Suitability for isolation				■		■		■		
AC breaking capacity										
IEC 60898 (EN 60898)		Icn (A)	230/400 V		6000		10000		Equal to K60	
		Ics	(%of Icn)		100%	100%	75%	75%	-	-
Trip units (non adjustable)										
Curve type		B (Im = 3 to 5 In)		■		■		-		
		C (Im = 5 to 10 In)		■		■		-		
		D (Im = 10 to 14 In)		-		-		-		
Earth leakage protection										
Integrated				-		-		■		
Sensitivity type (mA)			AC		-		-		■	
Electrical auxiliaries										
Auxiliary and alarm switches (OF-SD)				-		-		-		
Shunt trip (MX); undervoltage release (MN)				-		-		-		
Emergency stop opening switch (MNx)				-		-		-		
Voltage threshold release (MSU)				-		-		-		
Connection										
Cable maxi capacity (mm²)		Flexible		16(≤20A)		25 (>20A)		25		
		Rigid		16(≤20A)		25 (>20A)		35		
Installation										
Dimensions (mm)		W		18 per pole				36	72	
		D x H		74 x 81				68 x 81		

Circuit protection

K60 Biconnect circuit breakers

- Fast closing independent of the speed of actuation of the toggle.
- Reinforced cable pull-out strength: serrated terminals

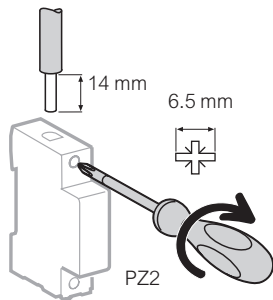
Padlocking device



- Padlocking possible for work to be carried out on live parts

Connection

- Downstream by Biconnect comb busbar
- Upstream/downstream by tunnel terminals

Connection



Common characteristics			
Type	K60 Biconnect		
Rating	6 to 20 A		32 to 63 A
Tightening torque	2 N.m		3.5 N.m
Copper cables			
Rigid		0.5 to 25 mm²	0.5 to 35 mm²
Flexible or with ferrule		0.5 to 16 mm²	0.5 to 25 mm²

Circuit protection

K60 Biconnect circuit breakers

DIN 35 mm

Clip on DIN rail 35 mm.

0...360°

Indifferent position of installation.

IP40

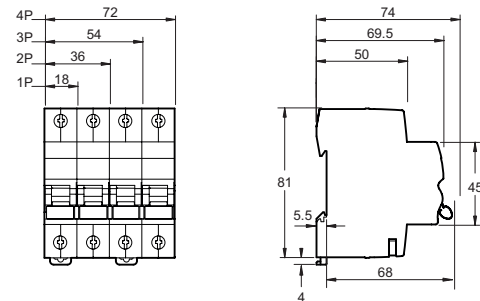
Technical Data

Main characteristics			K60N	K60H
Insulation voltage (Ui)	Phase-to-phase		440 V AC	
Voltage rating (Ue)	Phase-to-neutral		230 V AC	
	Phase-to-phase		400 V AC	
Magnetic tripping	B curve	3 to 5 In	■	
	C curve	5 to 10 In	■	
According to EN 60898-1				
Limitation class			3	
Rated breaking capacity (Icn)			6000 A	10000 A
Service breaking capacity (Ics)			100 % of Icn	75 % of Icn
Rated breaking and making capacity on a single pole (Icn1)			Icn1 = Icn	
Additional characteristics				
Degree of protection (IEC 60529)	Device in modular enclosure		IP40 Insulation class II	
Endurance (O-C)	Electrical	>20 A	20,000 cycles	
		<32 A	10,000 cycles	
	Mechanical	20,000 cycles		
Operating temperature			-5°C to +55°C	
Storage temperature			-25°C to +85°C	
Tropicalization (IEC 60068-1)			Treatment 2 (relative humidity 95% at 55°C)	

Weight (g)

Circuit-breaker				
Type	1P	2P	3P	4P
K60 Biconnect	120	240	360	480

Dimensions (mm)



Circuit protection

K60N Biconnect circuit breakers



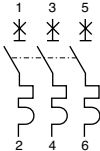
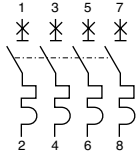


IEC/EN 60898-1
K60N Biconnect circuit breakers are circuit breakers which combine the following functions:

- Circuit protection against short-circuit currents
- Circuit protection against overload currents
- Disconnection, opening and closing

K60N Biconnect circuit breaker 50/60 Hz			
Breaking capacity in short circuit (Icn) as per IEC/EN 60898-1			
Ph/Ph		400 V	
Ph/N		230 V	
Rating (In)	6 to 63 A	6000 A	
Service breaking capacity (Ics)			
100 % of Icn			

Product Reference

K60N Biconnect circuit breaker								
Type	1P		2P		3P		4P	
								
Auxiliaries	Without auxiliaries		Without auxiliaries		Without auxiliaries		Without auxiliaries	
Rating (In)	Curve							
	B	C	B	C	B	C	B	C
6 A	A9K01106	A9K02106	A9K01206	A9K02206	A9K01306	A9K02306	A9K01406	A9K02406
10 A	A9K01110	A9K02110	A9K01210	A9K02210	A9K01310	A9K02310	A9K01410	A9K02410
16 A	A9K01116	A9K02116	A9K01216	A9K02216	A9K01316	A9K02316	A9K01416	A9K02416
20 A	A9K01120	A9K02120	A9K01220	A9K02220	A9K01320	A9K02320	A9K01420	A9K02420
32 A	A9K01132	A9K02132	A9K01232	A9K02232	A9K01332	A9K02332	A9K01432	A9K02432
40 A	A9K01140	A9K02140	A9K01240	A9K02240	A9K01340	A9K02340	A9K01440	A9K02440
50 A	A9K01150	A9K02150	A9K01250	A9K02250	A9K01350	A9K02350	A9K01450	A9K02450
63 A	A9K01163	A9K02163	A9K01263	A9K02263	A9K01363	A9K02363	A9K01463	A9K02463
Width in 9-mm modules	2		4		6		8	
Accessories	Padlocking device cat. no. 26970							

Circuit protection

K60H Biconnect circuit breakers



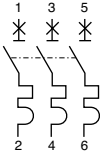
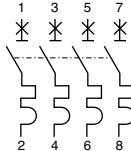


IEC/EN 60898-1
K60H Biconnect circuit breakers are circuit breakers which combine the following functions:

- Circuit protection against short-circuit currents
- Circuit protection against overload currents
- Disconnection, opening and closing

K60H Biconnect circuit breaker 50/60 Hz		
Breaking capacity in short circuit (Icn) as per IEC/EN 60898-1		
Ph/Ph		400 V
Ph/N		230 V
Rating (In)	6 to 63 A	10000 A
Service breaking capacity (Ics)		
75 % of Icn		

Product Reference

K60H Biconnect circuit breaker								
Type	1P		2P		3P		4P	
								
Auxiliaries	Without auxiliaries		Without auxiliaries		Without auxiliaries		Without auxiliaries	
Rating (In)	Curve							
	B	C	B	C	B	C	B	C
6 A	A9K11106	A9K12106	A9K11206	A9K12206	A9K11306	A9K12306	A9K11406	A9K12406
10 A	A9K11110	A9K12110	A9K11210	A9K12210	A9K11310	A9K12310	A9K11410	A9K12410
16 A	A9K11116	A9K12116	A9K11216	A9K12216	A9K11316	A9K12316	A9K11416	A9K12416
20 A	A9K11120	A9K12120	A9K11220	A9K12220	A9K11320	A9K12320	A9K11420	A9K12420
32 A	A9K11132	A9K12132	A9K11232	A9K12232	A9K11332	A9K12332	A9K11432	A9K12432
40 A	A9K11140	A9K12140	A9K11240	A9K12240	A9K11340	A9K12340	A9K11440	A9K12440
50 A	A9K11150	A9K12150	A9K11250	A9K12250	A9K11350	A9K12350	A9K11450	A9K12450
63 A	A9K11163	A9K12163	A9K11263	A9K12263	A9K11363	A9K12363	A9K11463	A9K12463
Width in 9-mm modules	2		4		6		8	
Accessories	Padlocking device cat. no. 26970							