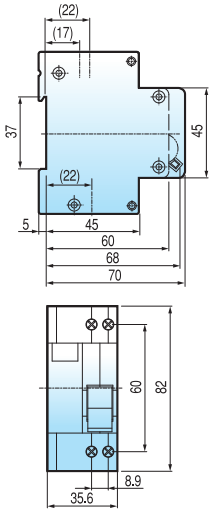
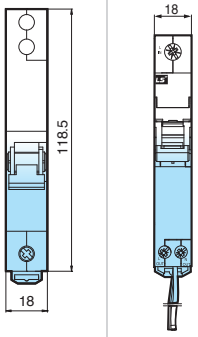
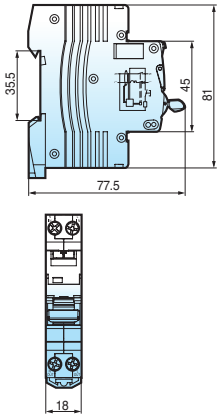
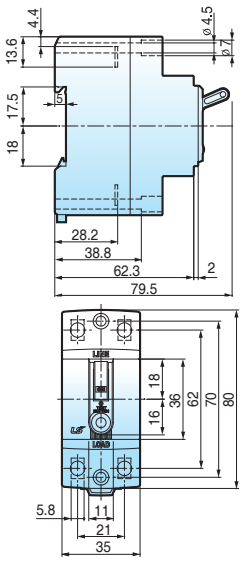
Residual Current Circuit Breakers

2 and 4 pole series up to 63AF

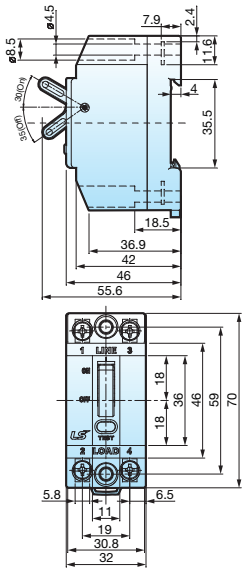
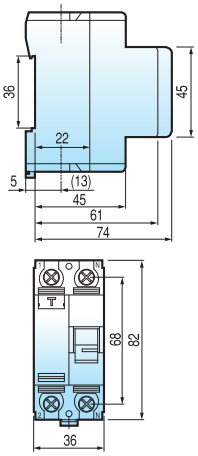
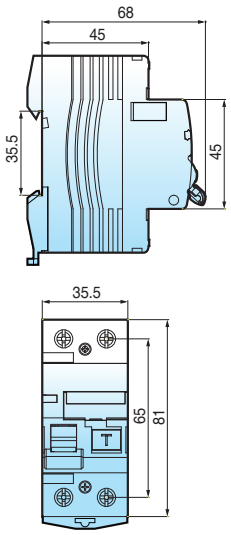




Type		RCBO					
		RKP	RKS	RKS-b	RKC	32KGRc	32KGRd
Protection		Ground fault and overcurrent	Ground fault and overcurrent		Ground fault and overcurrent	Ground fault and overcurrent	
Rated current		3 (C, D curve), 6, 10, 16, 20, 25, 32A (B, C, D curve)	6, 10, 16, 20, 25, 32A (40, 50A) * (B, C curve)		6, 10, 16, 20, 25, 32A (B, C curve)	15, 20, 30A	
Rated residual current		–	–		–	–	
	Operating, $I_{\triangle n}$	30, 100, 300mA (Non-adjustable)	30, 100mA (Non-adjustable)		10, 30mA (Non-adjustable)	15, 30mA (Non-adjustable)	
	Non-operating, $I_{\triangle no}$	$0.5I_{\triangle n}$	$0.5I_{\triangle n}$		$0.5I_{\triangle n}$	$0.5I_{\triangle n}$	
Poles		1P+N	1P+N		1P+N	2pole	
Rated voltage		230VAC	230VAC	240VAC	240VAC	110/240VAC	
Residual current off-time		≤0.1 sec.	≤0.3 sec.		≤0.1 sec	≤0.03 sec	
Standard		IEC 61009	IEC 61009		IEC 61009	IEC 61009, KS	
Approval		CCC, SEMKO CB, CE, SABS	SEMKO CB, CE, SABS	SEMKO CB, CE	SEMKO CB, CE	CCC	
Type of trip		–	–		–	–	
	Ground fault	Electronic	Electronic		Electronic	Electronic	
	Overcurrent	Thermal-magnetic	Thermal-magnetic		Thermal-magnetic	Bimetallic	
Breaking capacity		4.5kA	10kA		6kA (32A 4.5kA)	1.5kA	2.5kA
Conditional short circuit capacity		–	–		–	–	
Endurance	Electrical	4,000 operations	4,000 operations		4,000 operations	4,000 operations	
	Mechanical	10,000 operations	10,000 operations		10,000 operations	10,000 operations	
Mount		On 35mm DIN rail	On 35mm DIN rail		On 35mm DIN rail	On 35mm DIN rail / Screw	
Width		35.6mm	18mm		18mm	35mm	
Terminal		Lug type (Cable up to $10mm^2$)	Lug type (Cable up to $10mm^2$)		Lug type (Cable up to $10mm^2$)	Screw clamp type (Cable up to $5.5mm^2$)	
Type of operation		AC	AC		A/AC	–	
Dimension							
Characteristic curve		See page 45	See page 45		–	–	

* 40, 50A are availible only for RKS-b




	RCCB					Isolator
	32GRh			RKN	RKN-b	BKD
	Ground fault and overcurrent			Ground fault		-
	N type	S type	H type	25, 32, 40, 63A	63AF / 25, 40, 63A; 100AF / 80, 100A	40, 50, 63, 80, 100, 125A
	15, 20, 30A					
	-			-	-	-
	15, 30mA (Non-adjustable)			30, 100, 300mA (Non-adjustable)		-
	0.5I△n			0.5I△n		-
	2pole			1P+N, 3P+N		1p, 2p, 3p, 4p
	110/220/230VAC			240VAC (1P+N), 240/415V (3P+N)		230/400VAC
	≤0.03 sec			≤0.1 sec		-
	CB(IEC60947/IEC61009-1)			IEC 61008		IEC 60947-3
	-			SEMKO CB, CE, SABS, CCC	SEMKO CB, CE, SABS	SABS, SEMKO CB
	-			-	-	-
	Electronic			Electro-magnetic		-
	Bimetallic			N.A		-
	1.5kA	2.5kA	3.5kA	-		-
	-			6kA	10kA	-
	4,000 operations			4,000 operations		1,500 operations (125A 1,000 operations)
	10,000 operations			10,000 operations		10,000 operations
	On 35mm DIN rail / Screw			On 35mm DIN rail		On 35mm DIN rail
	32mm			-		17.8mm per pole
	Screw clamp type (Cable up to 5.5mm²)			Lug type (Cable up to 35mm²)		Lug type (Cable up to 50mm²)
	—			A/AC	A/AC / AC	-
						
	-			-	-	

Surge Protective Device

BK Series

Din-rail type

Product description

The BK Series AC/DIN type surge protect protects a 50/60Hz electric system from surge voltages. Also, the system allows replacement of the protective element (MOV), ensuring convenience and economy. However, as only the protective module is provided, other components should be added when the system is installed in accordance with the site condition.
When the protective device is activated (in an anomaly or an accident), the red lever in the status indicator protrudes.

Product rating <Uc: 385V>

Item			AC Type					
			BK05S-T3	BK10S-T2	BK20S-T2	BK30S-T2	BK40S-T2	BK12S-T1 Note4)
No. of poles		[Pole]	2, 4P	1, 1+N, 2, 3, 3+N, 4P				
Rated voltages		Un [V]	230/440V					
Max. continued-operation voltage	Uc [V]	-	385	385	385	385	385	385
		N-PE		255	255	255	255	255
Voltage protection level	Up [kV]	-	≤0.8	≤1.5	≤1.8	≤2.0	≤2.5	≤2.5
		N-PE	-	≤1.0	≤1.2	≤1.5	≤2.0	≤2.5
	Up [kV] Ⓚ	-	≤2.0	≤1.5	≤1.8	-	≤2.5	-
		N-PE	-	≤2.5	≤2.5	-	≤3.5	-
Nominal discharge current		In [kA]		10	20	30	40	-
Max. discharge current		Imax [kA]	-	20	40	60	80	-
Impulse current		Iimp [kA]	-	-	-	-	-	12.5 (10/350)
Open circuit voltage		Uoc [kV]	10	-	-	-	-	-
Grades		Test class	Class III	Class II				Class I (Built-in type)
Reaction time			< 25ns					
Status indication Note2)			Have Status indication					
Operating temperature range			-40℃~80℃					
Cross-sectional area of the connecting wires			6~16mm²	6~32mm²				16~32mm²
Accessories			AL Note3)					-
Standard			IEC 61643-11 / KS C IEC 61643-11 / UL1449					
Certification			CE, UL, KS, S	CE, UL, KS, S	CE, UL, KS, S	CE, UL	CE, UL, KS, S	CE

Note)
1. When the protective device is activated (in an anomaly or an accident) in products with Class II and III indication features, the red lever in the status indicator protrudes.
2. With a product with Class I indication feature, a green light will turn on when the protective device is in a normal condition. The green light will go off when the protective device is activated (for an anomaly or an accident.)
3. The AL contact accessories are not sole separately. You need to choose these accessories when you place your order for the product. Please be mindful of this fact when you place your order.
4. The Class I products are integrated with the MOVs, which cannot be detached.

Product description

The BK Series AC/DIN type surge protect protects a 50/60Hz electric system from surge voltages. Also, the system allows replacement of the protective element (MOV), ensuring convenience and economy. However, as only the protective module is provided, other components should be added when the system is installed in accordance with the site condition.
When the protective device is activated (in an anomaly or an accident), the red lever in the status indicator protrudes.

Product rating <Uc: 460V>

Item			AC Type			
			BK10S-T2	BK20S-T2	BK30S-T2	BK40S-T2
No. of poles		[Pole]	1, 1+N, 2, 3, 3+N, 4P			
Rated voltages		Un [V]	254/440V			
Max. continued-operation voltage	Uc [V]	-	460	460	460	460
		N-PE	255	255	255	255
Voltage protection level	Up [kV]	-	≤1.5	≤2.0	≤2.2	≤2.5
		N-PE	≤1.0	≤1.2	≤1.5	≤2.0
	Up [kV] ⓚ	-	-	-	-	-
		N-PE	-	-	-	-
Nominal discharge current		In [kA]	10	20	30	40
Max. discharge current		Imax [kA]	20	40	60	80
Impulse current		Iimp [kA]	-	-	-	-
Open circuit voltage		Uoc [kV]	-	-	-	-
Grades		Test class	Class II			
Reaction time			< 25ns			
Status indication Note2)			Have Status indication			
Operating temperature range			-40℃~80℃			
Cross-sectional area of the connecting wires			6~32mm²			
Accessories			AL Note3)			
Standard			IEC 61643-11, UL1449			
Certification			CE, S	CE, S, UL	CE, S, UL	CE, S, UL

Note)
1. When the protective device is activated (in an anomaly or an accident) in products with Class II and III indication features, the red lever in the status indicator protrudes.
2. With a product with Class I indication feature, a green light will turn on when the protective device is in a normal condition. The green light will go off when the protective device is activated (for an anomaly or an accident.)
3. The AL contact accessories are not sole separately. You need to choose these accessories when you place your order for the product. Please be mindful of this fact when you place your order.