

Circuit Breaker

Type Designation & How to Order



Earth Leakage Circuit Breaker

CBS-103N Rated current Residual current Accessories

Model	Ampere Frame	Number of poles	Type	Accessories
E Economic type	3 32AF	2 2 pole	N NEW type	AX Auxiliary switch
S Standard type	5 50AF	3 3 pole	c Compact type	AL Alarm switch
H High-Breaking type	6 63AF	4 4 pole		
D Distribution	10 100AF			
	20 225AF			

Molded Case Circuit Breaker

CBS-103N Rated current Accessories

Model	Ampere Frame	Number of poles	Type	Accessories
E Economic type	3 32AF	2 2 pole	N NEW type	AX Auxiliary switch
S Standard type	5 50AF	3 3 pole	c Compact type	AL Alarm switch
H High-Breaking type	6 63AF	4 4 pole	ca Compact type	SHT Shunt trip
L Limit type	10 100AF		NZ Compact type	
D Distribution	20 250AF			
	40 400AF			
	60 600AF			
	80 800AF			

Distribution

SG-32N Rated current Residual current

Model	Ampere Frame	Number of poles	Type
B Molded case circuit breaker	3 32AF	1 1 pole	N Compact type
G Earth leakage circuitbreaker	5 50AF	2 2 pole	c New type
			M Miniature type

Molded Case Circuit Breaker

Economic Type

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Frame size		32AF		50AF				63AF				100AF				225AF			400AF			600AF			800AF									
Frame type		CBE-32Nc	CBE-33Nc	CBE-52Nc	CBE-53Nc	CBE-52N	CBE-53N	CBE-54N	CBE-62Nc	CBE-62N	CBE-63N	CBE-64N			CBE-102N	CBE-103N	CBE-104N	CBE-202N	CBE-203N	CBE-204N	CBE-402N	CBE-403N	CBE-404N	CBE-602	CBE-603	CBE-604	CBE-802	CBE-803	CBE-804					
Frame Image																																		
Rated	Number of poles	2	3	2	3	2	3	4	2	2	3	4			2	3	4	2	3	4	2	3	4	2	3	4	2	3	4					
	Rated current (In) A	15,(16),20,30,(32)		15,(16),20,30,(32),40,50				15,(16),20,30,(32),40,50				60				63				15,(16),20,30,(32),40,50,(63),75,(80),100			125,150,175,200,225			250,300,350,400			500,600			700,800		
	Rated operational (Ue) AC(V)	460		460				600				460				600				600			600			600			600					
	DC(V)	-		-				250				-				250				-			250			-			250			-		
	Rated insulation voltage (Ui)	600		600				690				600				690				690			690			690			690					
Technical data conforming to (kA)(Sym) KS C 8321 IEC60947-2	Icu AC 600V	-		-				5				-				5				7.5			10			18			22			22		
	480/500V	-		-				7.5				-				7.5				10			10			18			25			25		
	460V	2.5		2.5				10				2.5				10				14			18			25			35			35		
	415V	2.5		2.5				10				2.5				10				14			18			25			35			35		
	380V	2.5		2.5				14				2.5				14				18			18			30			42			42		
	220/240V	5		5				25				5				25				35			35			50			65			65		
	Ics=...% x Icu	50		50				50				50				50				50			50			50			50			50		
	DC 250V	-		-				5				-				5				-			10			-			20			-		
125V	-		-				10				-				10				-			15			-			30			-			
Mechanical life span (number)	Current carrying	6000		6000				6000				6000				6000				4000			1000			1000			500					
	Not current carrying	4000		4000				4000				4000				4000				4000			4000			5000			5000			3500		
Dimensions (mm)	a	50	75	50	75	50	75	100	50	50	75	100			50	75	100	105	140	105	140	140	185	210	280	210	280	210	280					
	b	96		96				130				96				130				130			165			257			275			275		
	c	60		60				60				60				60				60			60			103			103			103		
	d	80		80				80				80				80				80			84			145			158			158		
Weight (kg)	0.3	0.43	0.3	0.43	0.45	0.65	0.85	0.3	0.45	0.65	0.85			0.6	0.8	1.0	1.1	1.3	1.5	5.2	6.2	7.8	9	10.5	15	11	16							
Type of trip unit	Full electronic type		Full electronic type				Full electronic type				Full electronic type				Full electronic type				Thermal electronic type			Thermal electronic type			Thermal electronic type			Thermal electronic type						
Trip button	○		○				○				○				○				○			○			○			○						
Operating characteristics	8~16XIn		8~16XIn				8~16XIn				8~16XIn				8~16XIn				8~14XIn			250/350A:10~15XIn 300/400A:9~15XIn			9~16XIn			9~16XIn						
Installation and connection	Screw or DIN rail		Screw or DIN rail				Screw				Screw or DIN rail				Screw				Screw			Screw			Screw			Screw						
Accessories	AUX	-		-				○				-				○				○			○			○			○					
	AL	-		-				○				-				○				○			○			○			○					
	SHT	-		-				○				-				○				○			○			○			○					
	CH	-		○				-				-				○				○			○			○			○					
Safety certificate for electrical products	○		-				-				-				-				-			○			-			-						
KS C 8321	○		○				○				○				○				○			-			-			-						
Lloyd's Register (LR)	-		-				-				-				-				-			-			-			-						
Germanischer Lloyd (GL)	-		-				-				-				-				-			-			-			-						
CE/TÜV	○		○				○				-				○				○			○			○			○						

· 1) KS-acquired rating is highlighted in red color among rated interrupting current, safety certification-acquired rated is highlighted in blue color, and the interrupting current for the remaining voltage is reference rating.
· 2) The product for CBS-202N 2P doesn't acquire the certificate.
· 3) 125A doesn't acquire the safety certificate LR, GL.
· 4) "()" refers to the products that doesn't acquire safety certificate.

Molded Case Circuit Breaker

Standard Type

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Frame size		32AF				50AF				63AF			125AF			250AF			400AF			600AF			800AF							
Frame type		CBS-32Nc	CBS-33Nc	CBS-32N	CBS-33N	CBS-52Nc	CBS-53Nc	CBS-52N	CBS-53N	CBS-54N	CBS-62N	CBS-63N	CBS-64N		CBS-102N	CBS-103N	CBS-104N	CBS-202N	CBS-203N	CBS-204N	CBS-402N	CBS-403N	CBS-404N	CBS-602	CBS-603	CBS-604	CBS-802	CBS-803	CBS-804			
Frame Image																																
Rated	Number of poles	2	3	2	3	2	3	2	3	4	2	3	4		2	3	4	2	3	4	2	3	4	2	3	4	2	3	4	2	3	4
	Rated current (In) A	15, (16), 20, 30, (32)		15, (16), 20, 30, (32), 40, 50		15, (16), 20, 30, (32), 40, 50		15, (16), 20, 30, (32), 40, 50			63				15, (16), 20, 30, (32), 40, 50, (63), 75, (80), 100, *30, 125			125, 150, 175, 200, 225, *250			250, 300, 350, 400			500, 600			700, 800					
	Rated operational (Ue) AC(V)	460		460		460		600			600				600			600			600			600			600					
	DC(V)	-		-		-		250			-				250			-			250			-			250			-		
	Rated insulation voltage (Ui)	600		600		600		690			690				690			690			690			690			690			690		
Technical data conforming to (kA)(Sym) KS C 8321 IEC60947-2	Icu AC 600V	-		-		2.5		7.5			7.5				10			14			22			35			35					
	480/500V	-		-		-		10			10				14			14			25			45			45					
	460V	2.5		2.5		5		14			14				25			25			35			50			50					
	415V	2.5		2.5		5		14			14				25			25			35			50			50					
	380V	2.5		2.5		7.5		18			18				30			30			42			65			65					
	220/240V	5		5		10		25			25				50			50			65			100			100					
	Ics=...% x Icu	50		50		50		50			50				50			50			50			50			50					
	DC 250V	-		-		-		7.5			-				14			-			20			-			40			-		
125V	-		-		-		14			-				20			-			30			-			50			-			
Mechanical life span (number)	Current carrying	6000		6000		6000		6000			6000				6000			4000			1000			1000			500					
	Not current carrying	4000		4000		4000		4000			4000				4000			4000			5000			5000			3500					
Dimensions (mm)	a	50	75	50	75	50	75	50	75	100	50	75	100		60	90	120	105	140	140	185	210	280	210	280	210	280					
	b	96		96		96		130			130				155			165			257			275			275					
	c	60		60		60		60			60				60			60			103			103			103					
	d	80		80		80		80			80				82			84			145			158			158					
	Weight (kg)	0.3	0.43	0.3	0.43	0.3	0.43	0.6	0.8	1.0	0.6	0.8	1.0		0.7	1.1	1.5	1.2	1.4	1.6	5.2	6.2	7.8	11	16	11.5	18					
Type of trip unit	Full electronic type		Full electronic type		Full electronic type				Full electronic type					Thermal electronic type			Thermal electronic type			Thermal electronic type			Thermal electronic type			Thermal electronic type						
Trip button	○		○		○				○					○			○			○			○			○						
Operating characteristics	8~16XIn		8~16XIn		8~16XIn				8~16XIn					15~20A:18~28XIn 30A:12~20XIn, 40A~100A:8~14XIn			8~14XIn			250/350A:10~15XIn 300/400A:9~15XIn			9~16XIn			9~16XIn						
Installation and connection	Screw or DIN rail		Screw or DIN rail		Screw or DIN rail				Screw					Screw			Screw			Screw			Screw			Screw						
Accessories	AUX	-		-		-				○					○			○			○			○			○					
	AL	-		-		-				○					○			○			○			○			○					
	SHT	-		-		-				○					○			○			○			○			○					
	CH	-	○	-	○	-	○	-	○	-	○	-	○	-	○		-	○	-	○	-	○	-	○	-	○	-	○	-	○	-	○
Safety certificate for electrical products	-		-		-				-					-			-			○			-			-						
KS C 8321	○		○		○				○					-			○			○			-			-						
Lloyd's Register (LR)	-		-		-				-					-			-			-			-			-						
Germanischer Lloyd (GL)	-		-		-				-					-			-			-			-			-						
CE/TÜV	○		○		○				○					○			○			○			-			-						

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Molded Case Circuit Breaker

High-Breaking/Limit Type

MCCB

TYPE		High-Breaking Type					High-Breaking Type					Limit Type				
Frame size		32AF		50AF			125AF			500AF			400AF			
Frame type		CBH-32N	CBH-33N	CBH-52N	CBH-53N	CBH-54N	CBH-102N	CBH-103N	CBH-104N	CBH-202N	CBH-203N	CBH-204N	CBL-402N	CBL-403N	CBL-404N	
Frame Image																
Rated	Number of poles	2	3	2	3	4	2	3	4	2	3	4	2	3	4	
	Rated current (In) A	15,(16),20,30,(32)			15,(16),20,30,(32),40,50			15,(16),20,30,(32),40,50,(63),75,(80),100,*③125			125,150,175,200,225,*④250			250,300,350,400		
	Rated operational (Ue) AC(V)	600			600			600			600			600		
	DC(V)	250			250			250			250			250		
	Rated insulation voltage (Ui)	690			690			690			690			690		
Technical data conforming to (kA)(Sym) KS C 8321 IEC60947-2	Icu AC 600V	7.5			10			18			18			35		
	480/500V	10			14			25			25			42		
	460V	14			25			35			35			65		
	415V	14			25			35			35			65		
	380V	18			30			42			42			65		
	220/240V	25			50			65			65			125		
	Ics=...% x Icu	50			50			50			50			50		
	DC 250V	7.5			14			18			18			40		
125V	14			20			25			25			60			
Mechanical life span (number)	Current carrying	6000			6000			6000			4000			6000		
	Not current carrying	4000			4000			4000			4000			4000		
Dimensions (mm)	a	50	75	60	90	120	60	90	120	105	140	140	185			
	b	130			155			155			165			257		
	c	60			60			60			60			103		
	d	80			82			82			84			145		
Weight (kg)	0.6	0.8	0.7	1.1	1.5	0.9	1.3	1.7	1.5	1.7	2.0	5.2	6.2	7.8		
Type of trip unit	Full electronic type			Thermal electronic type			Thermal electronic type			Thermal electronic type			Thermal electronic type			
Trip button	○			○			○			○			○			
Operating characteristics	8~16XIn			15~20A:18~28XIn 30A:12~20XIn, 40A~50A:8~14XIn			15~20A:18~28XIn 30A:12~20XIn, 40A~100A:8~14XIn			8~14XIn			250/350A:10~15XIn 300/400A:9~15XIn			
Installation and connection	Screw			Screw			Screw			Screw			Screw			
Accessories	AUX	○			○			○			○			○		
	AL	○			○			○			○			○		
	SHT	○			○			○			○			○		
	CH	-	○	-	○	-	○	-	○	-	○	-	○	-	○	
Safety certificate for electrical products	-			-			-			-			○			
KS C 8321	○			○			○			○			○			
CE/TÜV	○			○			○			○			-			

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Molded Case Circuit Breaker

ZCT MCCB

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TYPE		Economic Type				Standard Type				Standard Type				High-Breaking Type			
Frame size		50AF		225AF		50AF		125AF		250AF		50AF		125AF		250AF	
Frame type		CBE-53NZ	CBE-54NZ	CBE-203NZ	CBE-204NZ	CBS-53NZ	CBS-54NZ	CBS-103NZ	CBS-104NZ	CBS-203NZ	CBS-204NZ	CBH-53NZ	CBH-54NZ	CBH-103NZ	CBH-104NZ	CBH-203NZ	CBH-204NZ
Frame Image																	
Rated	Number of poles	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
	Rated current (In) A	15,(16),20,30,(32),40,50		125,150,175,200,225		15,(16),20,30,(32),40,50		15,(16),20,30,(32),40,50,(63),75,(80),100,☞125		125,150,175,200,225,☞250		15,(16),20,30,(32),40,50		15,(16),20,30,(32),40,50,(63),75,(80),100,☞125		125,150,175,200,225,☞250	
	Rated operational (Ue) AC(V)	600		600		600		600		600		600		600		600	
	DC(V)	250		250		250		250		250		250		250		250	
	Rated insulation voltage (Ui)	690		690		690		690		690		690		690		690	
Technical data conforming to (kA)(Sym) KS C 8321 IEC60947-2	Icu AC 600V	5		10		7.5		10		14		10		18		18	
	480/500V	7.5		10		10		14		14		14		25		25	
	460V	10		18		14		25		25		25		35		35	
	415V	10		18		14		25		25		25		35		35	
	380V	14		18		18		30		30		30		42		42	
	220/240V	25		35		25		50		50		50		65		65	
	Ics=...% x Icu	50		50		50		50		50		50		50		50	
	DC 250V	5	-	10	-	7.5	-	14	-	14	-	14	-	18	-	18	-
125V	10	-	15	-	14	-	20	-	20	-	20	-	25	-	25	-	
Dimensions (mm)	a	75	100	105	140	75	100	90	120	105	140	90	120	90	120	105	140
	b	130		165		130		155		165		155		155		165	
	c	60		60		60		60		60		60		60		60	
	d	80		84		80		82		84		82		82		84	
	Weight (kg)	0.65	0.85	1.3	1.5	0.8	1.0	1.1	1.5	1.4	1.6	1.1	1.5	1.3	1.7	1.7	2.0
Type of trip unit	Full electronic type		Thermal electronic type		Full electronic type		Thermal electronic type		Thermal electronic type		Thermal electronic type		Thermal electronic type		Thermal electronic type		
Trip button	○		○		○		○		○		○		○		○		
Operating characteristics	8~16XIn		8~14XIn		8~16XIn		15~20A:18~28XIn 30A:12~20XIn, 40A~100A:8~14XIn		8~14XIn		15~20A:18~28XIn 30A:12~20XIn, 40A~50A:8~14XIn		15~20A:18~28XIn 30A:12~20XIn, 40A~100A:8~14XIn		8~14XIn		
Installation and connection	Bolt		Bolt		Bolt		Bolt		Bolt		Bolt		Bolt		Bolt		
Accessories	AUX	○		○		○		○		○		○		○		○	
	AL	○		○		○		○		○		○		○		○	
	SHT	○		○		○		○		○		○		○		○	
	CH	○		○		○		○		○		○		○		○	
ZCT	○		○		○		○		○		○		○		○		
KS C 8321	○		○		○		○		○		○		○		○		

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