

# Molded Case Circuit Breakers

## BW0 series

### General information

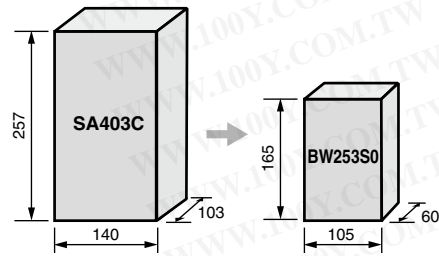
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#### ■ Description

We've expanded our MCCB lineup with the addition of models with global frame sizes of 160AF and 250AF.

#### • Compact

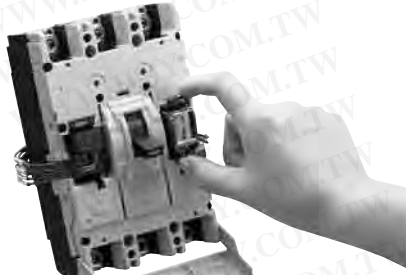
We've reduced external dimensions and increased modularization to the limits. Customers can now reduce costs in panel design and manufacturing. We've applied high-performance technology to achieve 100AF to 250AF models with a uniform depth of 60 mm. The size of the MCCB of 250AF has been significantly reduced.



Compact design has been realized for the MCCB family series from 100AF to 250AF. We've achieved a  $I_{cs}$  of 50%  $I_{cu}$ . Using uniform external dimensions provides flexibility in responding to changes in specifications. 100AF models can be mounted on IEC 35mm rail for easy panel mounting.

#### • Cassette

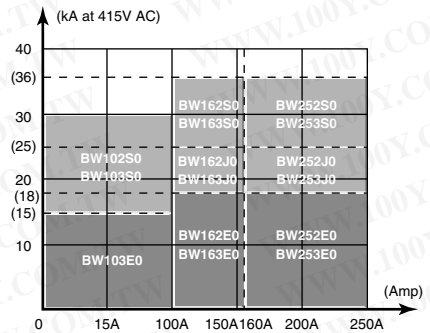
User installation provides for speedy on-site response to changes in specifications. All accessories can be assembled by the user. Quickly adaptable to the many onsite changes in specifications.



#### • Global

The BW0 series complies with the IEC standards in pursuit of global standards. The newly introduced frame sizes 160AF and 250AF fully comply with IEC standards while providing the required safety. The BW0 series complies IEC 60947-2. Standards conformity information is given on the nameplate. Gray front case has been adopted.

Application by breaking capacity



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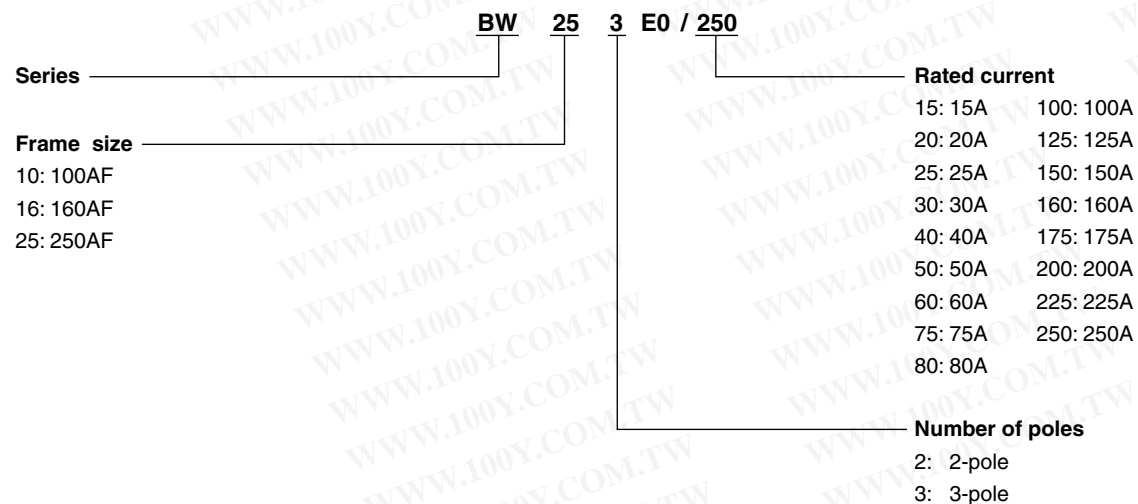
### Breaking capacities

#### ■ IEC and CE marking conformed

Series	Breaker ampere frame	Type	Pole	Rated current (A)	Insulation voltage Ui (V)	Breaking capacity (kA) [Icu/Ics] IEC60947-2 AC		
						230V	380V	415V
BW0	100	<b>BW103E0</b>	3	15, 20, 25, 30, 40, 50, 60, 75, 80, 100	690	25/13	18/9	15/8
		<b>BW102S0</b>	2	15, 20, 25, 30, 40, 50, 60, 75, 80, 100	690	50/25	30/15	30/8
		<b>BW103S0</b>	3	15, 20, 25, 30, 40, 50, 60, 75, 80, 100	690	100/50	30/15	30/8
	160	<b>BW162E0</b>	2	100, 125, 150, 160	690	25/13	18/9	18/9
		<b>BW163E0</b>	3	100, 125, 150, 160	690	25/13	18/9	18/9
		<b>BW162J0</b>	2	100, 125, 150, 160	690	50/25	25/13	25/13
		<b>BW163J0</b>	3	100, 125, 150, 160	690	50/25	25/13	25/13
		<b>BW162S0</b>	2	100, 125, 150, 160	690	85/43	36/18	36/18
		<b>BW163S0</b>	3	100, 125, 150, 160	690	85/43	36/18	36/18
	250	<b>BW252E0</b>	2	175, 200, 225, 250	690	25/13	18/9	18/9
		<b>BW253E0</b>	3	175, 200, 225, 250	690	25/13	18/9	18/9
		<b>BW252J0</b>	2	175, 200, 225, 250	690	50/15	25/13	25/13
		<b>BW253J0</b>	3	175, 200, 225, 250	690	50/15	25/13	25/13
		<b>BW252S0</b>	2	175, 200, 225, 250	690	85/43	36/18	36/18
		<b>BW253S0</b>	3	175, 200, 225, 250	690	85/43	36/18	36/18

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#### ■ Type number nomenclature



# Molded Case Circuit Breakers

## BW0 series

### Quick reference guide

#### BW0 series /2, 3-pole IEC and CE marking conformed types

Frame	100A			160A	
Pole	3	2	3	2	3
Type	BW103E0	BW102S0	BW103S0	BW162E0	BW163E0
Rated current (A)	15, 20, 25, 30, 40, 50, 60, 75, 80, 100	15, 20, 25, 30, 40, 50, 60, 75, 80, 100	15, 20, 25, 30, 40, 50, 60, 75, 80, 100	100, 125, 150, 160	100, 125, 150, 160
Rated insulation voltage (V AC)	690	690	690	690	690
[IEC 60947-2, JIS C8201-2] (V DC)	250	250	250	250	250
Rated breaking capacity (kA)	600V AC	–	–	–	–
[IEC 60947-2, JIS C8201-2] (Icu/lcs) *1	550V AC	5/3	10/3	10/3	5/3
	440V AC	10/5	20/5	20/5	10/5
	415V AC	15/8	30/8	30/8	15/8
	400V AC	15/8	30/15	30/15	15/8
	380V AC	18/9	30/15	30/15	18/9
	240V AC	25/13	50/25	100/50	25/13
	230V AC	25/13	50/25	100/50	25/13
	250V DC	5/3	5	10	5/3
Rated operating voltage [UL508] (VAC)	–	–	–	480	480
Dimensions (mm)	a	75	50	75	105
	b	130	130	130	165
	c	60	60	60	60
	d	81	81	81	86
Mass (kg) Front mounting type	0.78	0.6	0.78	1.36	1.36
Tripping device	Thermal-magnetic				
Front mounting, front connection	●	●	●	●	●
Internal accessories <i>Page 06/104</i>					
Auxiliary switch (AUX)	BW9W1SB0	BW9W1SB0	BW9W1SB0	BW9W1SG0	BW9W1SG0
Alarm switch (AL)	BW9K1SB0	BW9K1SB0	BW9K1SB0	BW9K1SG0	BW9K1SG0
Auxiliary switch + alarm switch (AUX+AL)	BW9WKS0	BW9WKS0	BW9WKS0	BW9WKS0	BW9WKS0
Shunt trip (SHT)	BW9F□B0	BW9F□B0	BW9F□B0	BW9F□G0	BW9F□G0
Undervoltage trip (UVR)	BW9R□B0	BW9R□B0	BW9R□B0	BW9R□G0	BW9R□G0
External accessories <i>Page 06/107</i>					
Operating handle N-type	BW9N0B0	BW9N0B0	BW9N0B0	BZ-N40C	BZ-N40C
Operating handle V-type	BW9V0B0	BW9V0B0	BW9V0B0	BZ6V40C	BZ6V40C
Terminal cover Short	–	–	–	BZ-TS40B	BZ-TS40B
Terminal cover Long	BW9BTB0-L3	–	BW9BTB0-L3	BZ-TB40B	BZ-TB40B
Insulation barrier Interphase	BW9BPB0	BW9BPB0	BW9BPB0	BZ-B40B	BZ-B40B
Flat terminal	–	–	–	BZ-S50B-2252	BZ-S50B-2253
Block terminal	BW9SSL0B0-□	BW9SSL0B0-□	BW9SSL0B0-□	BW9SSL0G0	BW9SSL0G0
Handle locking device	BW9Q1B0	BW9Q1B0	BW9Q1B0	BW9Q1G0	BW9Q1G0
IEC 35mm rail mounting	BW9PDB0	BW9PDB0	BW9PDB0	–	–

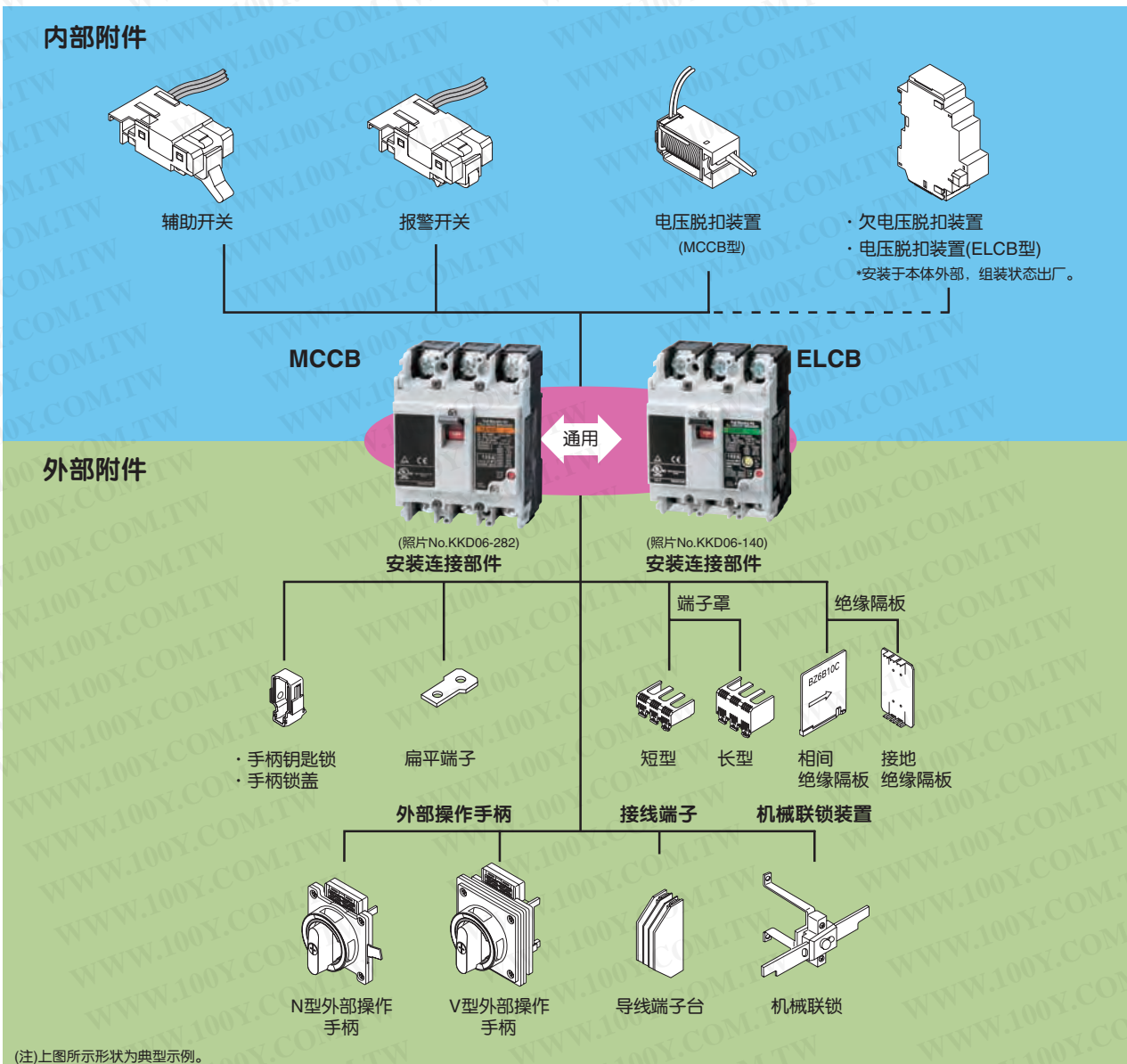
Notes: \*1 Icu: Rated ultimate short-circuit breaking capacity  
Ics: Rated service short-circuit breaking capacity

● Available – Not available

## α-TWIN的特点

### α-TWIN的特点

- 用户可以自行安装的附件，形式多样，品种齐全
- MCCB和ELCB由于尺寸相同，能灵活适应控制箱规格的变化。
- 用户可以自行安装的内部附件。



# 产品型号一览

## ● 塑壳式断路器

### BW系列

系列	BW				
框架电流	100A		160A		250A
极数	3	2	3	2	3
型号	<b>BW103E0</b>	<b>BW162E0</b>	<b>BW163E0</b>	<b>BW252E0</b>	<b>BW253E0</b>
额定电流(A)	15, 20, 25, 30, 40, 50, 60, 75, 80, 100	100, 125, 150, 160		175, 200, 225, 250	
额定分断容量(kA)	400V AC 15 / 4	18 / 9		18 / 9	
[GB14048.2] (Icu/Ics)	380V AC 18 / 5	18 / 9		18 / 9	
	230V AC 25 / 7	25 / 13		25 / 13	

系列	BW								
框架电流	100A			160A			250A		
极数	3	2	3	2	3	2	3	2	3
型号	<b>BW103S0</b>	<b>BW162J0</b>	<b>BW163J0</b>	<b>BW162S0</b>	<b>BW163S0</b>	<b>BW252J0</b>	<b>BW253J0</b>	<b>BW252S0</b>	<b>BW253S0</b>
额定电流(A)	15, 20, 25, 30, 40, 50, 60, 75, 80, 100	100, 125, 150, 160		100, 125, 150, 160		175, 200, 225, 250		175, 200, 225, 250	
额定分断容量(kA)	400V AC 35 / 9	25 / 13		36 / 18		25 / 13		36 / 18	
[GB14048.2] (Icu/Ics)	380V AC 35 / 9	25 / 13		36 / 18		25 / 13		36 / 18	
	230V AC 85 / 22	50 / 25		85 / 43		50 / 25		85 / 43	

### EA系列

系列	EA							
框架电流	30A		50A		60A		100A	
极数	2	3	2	3	2	3	2	3
型号	<b>EA32AC</b>	<b>EA33AC</b>	<b>EA52C</b>	<b>EA53C</b>	<b>EA62C</b>	<b>EA63C</b>	<b>EA102C</b>	<b>EA103C</b>
额定电流(A)	3, 5, 10, 15, 20, 30		5, 10, 15, 20, 30, 40, 50		60		50, 60, 75, 100	
额定分断容量(kA)	440V AC 1.5 / 1		2.5 / 2		2.5 / 2		10 / 5	
[GB14048.2] (Icu/Ics)	400V AC 1.5 / 1		2.5 / 2		2.5 / 2		10 / 5	
	230V AC 2.5 / 2		5 / 3		5 / 3		25 / 13	

系列	EA	
框架电流	600A	800A
极数	3	3
型号	<b>EA603C</b>	<b>EA803C</b>
额定电流(A)	500, 600	700, 800
额定分断容量(kA)	400V AC 35 / 18	35 / 18
[GB14048.2] (Icu/Ics)	380V AC 35 / 18	35 / 18
	230V AC 50 / 25	50 / 25

SA系列

系列	SA														
框架电流	30A			50A			60A								
极数	2		3	2		3	2		3	2		3			
型号	<b>SA32C</b>		<b>SA33C</b>	<b>SA52C</b>		<b>SA53C</b>	<b>SA52RC</b>		<b>SA53RC</b>	<b>SA62C</b>		<b>SA63C</b>	<b>SA62RC</b>		<b>SA63RC</b>
额定电流(A)	3, 5, 10, 15, 20, 30			5, 10, 15, 20, 30, 40, 50			10, 15, 20, 30, 40, 50				60				
额定分断容量(kA) 440V AC	2.5 / 2			7.5 / 4			10 / 5				7.5 / 4		10 / 5		
[GB14048.2] (Icu/Ics) 400V AC	2.5 / 2			7.5 / 4			10 / 5				7.5 / 4		10 / 5		
230V AC	5 / 3			10 / 5			25 / 13				10 / 5		25 / 13		

系列	SA	
框架电流	600A	800A
极数	3	
型号	<b>SA603RC</b>	<b>SA803RC</b>
额定电流(A)	500, 600	700, 800
额定分断容量(kA) 400V AC	50 / 25	50 / 25
[GB14048.2] (Icu/Ics) 380V AC	50 / 25	50 / 25
230V AC	85 / 43	85 / 43

系列	SA						
框架电流	1000A		1200A		1600A		
极数	3		4		3		4
型号	<b>SA1003E</b>	<b>SA1004E</b>	<b>SA1203E</b>	<b>SA1204E</b>	<b>SA1603E</b>	<b>SA1604E</b>	
额定电流(A)	500, 600, 700, 800, 900, 1000		600, 700, 800, 1000, 1200		800, 900, 1000, 1200, 1400, 1600		
额定分断容量(kA) 440V AC	65 / 49		65 / 49		85 / 64		
[GB14048.2] (Icu/Ics) 400V AC	65 / 49		65 / 49		85 / 64		
230V AC	100 / 75		100 / 75		125 / 94		

\* SA1003E ~ SA1604E型外壳盖为黑色。

H系列

系列	H										
框架电流	100A		160A		250A		400A		600A		800A
极数	3		4		3		4		3		3
型号	<b>H103CA</b>	<b>H104CA</b>	<b>H163CA</b>	<b>H164CA</b>	<b>H253CA</b>	<b>H254CA</b>	<b>H403CA</b>		<b>H603CA</b>		<b>H803CA</b>
额定电流(A)	16, 25, 32, 40, 50, 63, 80, 100		125, 160		200, 250		250, 300, 350, 400		500, 600		700, 800
额定分断容量(kA) 440V AC	65 / 65		65 / 65		65 / 65		70 / 18		70 / 18		70 / 18
[GB14048.2] (Icu/Ics) 400V AC	70 / 70		70 / 70		70 / 70		70 / 18		70 / 18		70 / 18
230V AC	100 / 100		100 / 100		100 / 100		125 / 32		125 / 32		125 / 32

\* H403CA ~ H803CA型外壳盖为黑色。

## ● 漏电断路器

### EG系列

系列	EG						
框架电流	30A			50A			60A
极数	2	3	3	2	3	3	3
型号	<b>EG32AC</b>	<b>EG33AC</b>	<b>EG33C</b>	<b>EG52AC</b>	<b>EG53AC</b>	<b>EG53C</b>	<b>EG63C</b>
额定电流(A)	5,10,15,20,30		5,10,15,20,30	5,10,15,20,30,40,50		5,10,15,20,30,40,50	60
额定电压(V AC)	100-230		100-440	100-230		100-440	100-440
额定剩余动作电流(mA)	15,30,100			15,30,100		15,30,100/200	15,30,100/200
最大断开时间(s)	0.1			0.1			0.1
额定分断容量(kA) 400V AC	-		1.5/1	-		2.5/2	2.5/2
[GB14048-2] (Icu/Ics) 230V AC	2.5/2		2.5/2	2.5/2		5/3	5/3

系列	EG				
框架电流	100A			600A	800A
极数	3	2	3	3	3
型号	<b>EG103AC</b>	<b>EG102C</b>	<b>EG103C</b>	<b>EG603C</b>	<b>EG803C</b>
额定电流(A)	60,75,100		50,60,75,100	500,600	700,800
额定电压(V AC)	100-230		100-230 100-440	100-440	100-440
额定剩余动作电流(mA)	30,100/200/500			100/200/500	100/200/500
最大断开时间(s)	0.1			0.1	0.1
额定分断容量(kA) 400V AC	-		- 10/5	35/18	35/18
[GB14048-2] (Icu/Ics) 230V AC	5/3		10/5 25/13	50/25	50/25

### SG系列

系列	SG				
框架电流	30A		50A		60A
极数	3		3	3	3
型号	<b>SG33C</b>	<b>SG53C</b>	<b>SG53RC</b>	<b>SG63C</b>	<b>SG63RC</b>
额定电流(A)	3,5,10,15,20,30		5,10,15,20,30,40,50	10,15,20,30,40,50	
额定电压(V AC)	100-440		100-440	100-440	
额定剩余动作电流(mA)	30,100/200/500		30,100/200/500		30,100/200/500
最大断开时间(s)	0.1		0.1	0.1	
额定分断容量(kA) 400V AC	2.5/2		7.5/4	10/5	7.5/4 10/5
[GB14048-2] (Icu/Ics) 230V AC	5/3		10/5	25/13	10/5 25/13

系列	SG	
框架电流	600A	800A
极数	3	3
型号	<b>SG603RC</b>	<b>SG803RC</b>
额定电流(A)	500,600	700,800
额定电压(V AC)	100-440	100-440
额定剩余动作电流(mA)	100/200/500	100/200/500
最大断开时间(s)	0.1	0.1
额定分断容量(kA) 400V AC	50/25	50/25
[GB14048-2] (Icu/Ics) 230V AC	85/43	85/43

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