

# 50AF ELCB

## EBN50c, EBS50c, EBH50c



EBN53c



EBS53c

### Ratings

Frame size		50AF						
<b>Type and pole</b>		<b>N-type</b>		<b>S-type</b>		<b>H-type</b>		
	2-pole (2-sensor)	<b>EBN52c</b>		-		-		
	3-pole (3-sensor)	<b>EBN53c</b>		<b>EBS53c</b>		<b>EBH53c</b>		
	4-pole (3-sensor)	-		<b>EBS54c</b>		<b>EBH54c</b>		
Rated current, I <sub>n</sub>		15-20-30-40-50A						
Rated residual current, I <sub>Δn</sub>		30, 100/200/500mA (Adjustable)						
Residual current off-time at I <sub>Δn</sub>		≤ 0.1 sec						
Rated operational voltage, U <sub>e</sub>		AC: 220/460V						
Rated impulse withstand voltage, U <sub>imp</sub>		6kV						
Wiring system	2-pole (2-sensor)	1Ø2W						
	3-pole (3-sensor)	1Ø2W, 1Ø3W, 3Ø3W						
	4-pole (3-sensor)	1Ø2W, 1Ø3W, 3Ø3W, 3Ø4W						
<b>Rated short-circuit breaking capacity, I<sub>cu</sub></b>		<b>N-type</b>		<b>S-type</b>		<b>H-type</b>		
AC	460V	<b>14kA</b>		<b>18kA</b>		<b>50kA</b>		
	415V	14kA		18kA		50kA		
	<b>220/250V</b>	<b>30kA</b>		<b>35kA</b>		<b>100kA</b>		
I <sub>cs</sub> =%×I <sub>cu</sub>		100%		100%		100%		
<b>Protective function</b>		Overload, Short-circuit and ground fault						
Type of trip unit		Thermal-Magnetic						
Magnetic trip range		12 × I <sub>n</sub> (30A and under: 400A)						
Endurance	Mechanical	25,000 operations						
	Electrical	10,000 operations						
Connection	Standard	Front connection						
	Optional	Rear connection						
Mounting		Standard Screw fixing						
<b>Dimensions (mm)</b>		Pole	2p	3p	3p	4p	3p	4p
		a	75	75	75	100	90	120
		b	130		130		155	
		c1 <small>Note)</small>	60		60		60	
		c2 <small>Note)</small>	64		64		64	
		d	82		82		82	
		Weight, kg	Standard	0.5	0.7	0.7	0.9	1
<b>Certification</b>		Pole	2p	3p	3p	4p	3p	4p
CE marking		CE	○	○	○	○	○	

#### For more information

- Drawings ▶ 116, 117 page
- Trip curves ▶ 101, 102 page
- Accessories ▶ 74 page
- Connection and mounting ▶ 127 page

Note) 1. Depth by door cut size : C1 for large cut, C2 for small cut  
 2. Do not test withstand voltage or insulation resistance test between poles to avoid the damage of the PCB.  
 3. 4-pole product's ampacity on neutral conductor is equal to or less than 50% of the rated current.  
 4. Rated non-trip current sensitivity is equal to or less than 50% of the rated current sensitivity.

## Ordering types

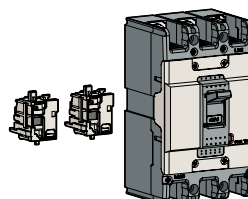
### Breaker types

EBN type (14kA/460V)				
Rated current, In	Rated residual current, I $\Delta$ n: 30mA		Rated residual current, I $\Delta$ n: 100/200/500mA	
	2-pole	3-pole	2-pole	3-pole
15 A	EBN52c/15/30	EBN53c/15/30	EBN52c/15/100	EBN53c/15/100
20 A	EBN52c/20/30	EBN53c/20/30	EBN52c/20/100	EBN53c/20/100
30 A	EBN52c/30/30	EBN53c/30/30	EBN52c/30/100	EBN53c/30/100
40 A	EBN52c/40/30	EBN53c/40/30	EBN52c/40/100	EBN53c/40/100
50 A	EBN52c/50/30	EBN53c/50/30	EBN52c/50/100	EBN53c/50/100

EBS type (18kA/460V)				
Rated current, In	Rated residual current, I $\Delta$ n: 30mA		Rated residual current, I $\Delta$ n: 100/200/500mA	
	3-pole	4-pole	3-pole	4-pole
15 A	EBS53c/15/30	EBS54c/15/30	EBS53c/15/100	EBS54c/15/100
20 A	EBS53c/20/30	EBS54c/20/30	EBS53c/20/100	EBS54c/20/100
30 A	EBS53c/30/30	EBS54c/30/30	EBS53c/30/100	EBS54c/30/100
40 A	EBS53c/40/30	EBS54c/40/30	EBS53c/40/100	EBS54c/40/100
50 A	EBS53c/50/30	EBS54c/50/30	EBS53c/50/100	EBS54c/50/100

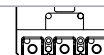
EBH type (50kA/460V)				
Rated current, In	Rated residual current, I $\Delta$ n: 30mA		Rated residual current, I $\Delta$ n: 100/200/500mA	
	3-pole	4-pole	3-pole	4-pole
15 A	EBH53c/15/30	EBH54c/15/30	EBH53c/15/100	EBH54c/15/100
20 A	EBH53c/20/30	EBH54c/20/30	EBH53c/20/100	EBH54c/20/100
30 A	EBH53c/30/30	EBH54c/30/30	EBH53c/30/100	EBH54c/30/100
40 A	EBH53c/40/30	EBH54c/40/30	EBH53c/40/100	EBH54c/40/100
50 A	EBH53c/50/30	EBH54c/50/30	EBH53c/50/100	EBH54c/50/100

### Accessories



#### Electrical auxiliaries

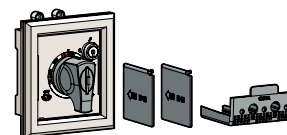
<b>AX</b>	Auxiliary switch
<b>AL</b>	Alarm switch
<b>AX+AL</b>	Combination switch



#### Maximum possibilities

<b>T-position</b>	Not available
<b>R-position</b>	Option of AX or AL or AX+AL

Note) For more detail see 74 page



#### External accessories

EBN50c EBS50c	EBH50c	Name
<b>IB13</b>	<b>IB23</b>	Insulation barrier
<b>TCL13</b>	<b>TCL23</b>	Terminal cover (Long) - Inde type, D-handle type, N-handle type
<b>TCS13</b>	<b>TCS23</b>	Terminal cover (Short) - Inde type, D-handle type, N-handle type
<b>DH100</b>	<b>DH125</b>	Rotary handle (Direct)
<b>DHK100</b>	<b>DHK125</b>	Rotary handle (Direct, Key lock)
<b>EH100</b>	<b>EH125</b>	Rotary handle (Extended)
-	<b>RTB2</b>	Rear terminal (Bar)
<b>RTR1</b>	<b>RTR2</b>	Rear terminal (Round)
<b>Handle lock</b>		

Note) For more detail see 82 page

- Inde type: This cover is used without auxiliary handle.
- D-handle type: This cover is used with D-handle.
- N-handle type: This cover is used with N-handle.

# 60AF ELCB

## EBN60c, EBS60c



EBN63c



EBS63c

### Ratings

Frame size		60AF			
<b>Type and pole</b>		<b>N-type</b>		<b>S-type</b>	
2-pole (2-sensor)		-		-	
3-pole (3-sensor)		EBN63c		EBS63c	
4-pole (3-sensor)		-		EBS64c	
Rated current, I <sub>n</sub>		60A			
Rated residual current, I <sub>Δn</sub>		30, 100/200/500mA (Adjustable)			
Residual current off-time at I <sub>Δn</sub>		≤0.1 sec			
Rated operational voltage, U <sub>e</sub>		AC: 220/460V			
Rated impulse withstand voltage, U <sub>imp</sub>		6kV			
Wiring system	2-pole (2-sensor)	-			
	3-pole (3-sensor)	1Ø2W, 1Ø3W, 3Ø3W			
	4-pole (3-sensor)	1Ø2W, 1Ø3W, 3Ø3W, 3Ø4W			
<b>Rated short-circuit breaking capacity, I<sub>cu</sub></b>		<b>N-type</b>		<b>S-type</b>	
AC	460V	14kA		18kA	
	415V	14kA		18kA	
	220/250V	30kA		35kA	
I <sub>cs</sub> =%×I <sub>cu</sub>		100%		100%	
<b>Protective function</b>		Overload, Short-circuit and ground fault			
Type of trip unit		Thermal-Magnetic			
Magnetic trip range		12×I <sub>n</sub>			
Endurance	Mechanical	25,000 operations			
	Electrical	10,000 operations			
Connection	Standard	Front connection			
	Optional	Rear connection			
Mounting	Standard	Screw fixing			
		Screw fixing			
<b>Dimensions (mm)</b>		Pole	3p	3p	4p
		a	75	75	100
		b	130	130	130
		c1 <small>Note)</small>	60	60	60
		c2 <small>Note)</small>	64	64	64
		d	82	82	82
		Weight, kg	Standard	0.7	0.7
<b>Certification</b>		Pole	3p	3p	4p
CE marking		CE	○	○	○

#### For more information

- Drawings ▶ 116 page
- Trip curves ▶ 101 page
- Accessories ▶ 74 page
- Connection and mounting ▶ 127 page

Note) 1. Depth by door cut size : C1 for large cut, C2 for small cut  
 2. Do not test withstand voltage or insulation resistance test between poles to avoid the damage of the PCB.  
 3. 4-pole product's ampacity on neutral conductor is equal to or less than 50% of the rated current.  
 4. Rated non-trip current sensitivity is equal to or less than 50% of the rated current sensitivity.

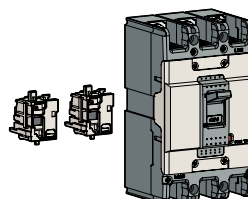
## Ordering types

### Breaker types

EBN type (14kA/460V)			
Rated current, In	Rated residual current, I $\Delta$ n: 30mA		Rated residual current, I $\Delta$ n: 100/200/500mA
	3-pole		3-pole
60 A	EBN63c/60/30		EBN63c/60/100

EBS type (18kA/460V)				
Rated current, In	Rated residual current, I $\Delta$ n: 30mA		Rated residual current, I $\Delta$ n: 100/200/500mA	
	3-pole	4-pole	3-pole	4-pole
60 A	EBS63c/60/30	EBS64c/60/30	EBS63c/60/100	EBS64c/60/100

### Accessories



#### Electrical auxiliaries

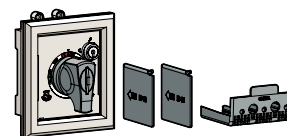
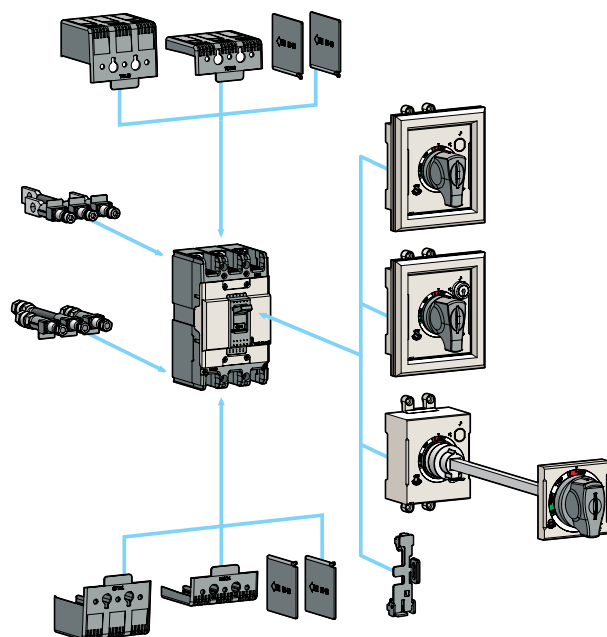
AX	Auxiliary switch
AL	Alarm switch
AX+AL	Combination switch



#### Maximum possibilities

T-position	Not available
R-position	Option of AX or AL or AX+AL

Note) For more detail see 74 page



#### External accessories

EBS60c EBN60c	Name
IB13	Insulation barrier
TCL13	Terminal cover (Long) - Inde type, D-handle type, N-handle type
TCS13	Terminal cover (Short) - Inde type, D-handle type, N-handle type
DH100	Rotary handle (Direct)
DHK100	Rotary handle (Direct, Key lock)
EH100	Rotary handle (Extended)
RTB1	Rear terminal (Bar)
RTR1	Rear terminal (Round)
<b>Handle lock</b>	

Note) For more detail see 82 page

- Inde type: This cover is used without auxiliary handle.
- D-handle type: This cover is used with D-handle.
- N-handle type: This cover is used with N-handle.

# 100AF ELCB

## EBN100c



EBN103c

### Ratings

Frame size		100AF			
<b>Type and pole</b>		<b>N-type</b>			
	2-pole (2-sensor)	<b>EBN102c</b>			
	3-pole (3-sensor)	<b>EBN103c</b>			
	4-pole (3-sensor)	<b>EBN104c</b>			
Rated current, I <sub>n</sub>		60-75-100A			
Rated residual current, I <sub>Δn</sub>		30, 100/200/500mA (Adjustable)			
Residual current off-time at I <sub>Δn</sub>		≤ 0.1 sec			
Rated operational voltage, U <sub>e</sub>		AC: 220/460V			
Rated impulse withstand voltage, U <sub>imp</sub>		6kV			
Wiring system	2-pole (2-sensor)	1Ø2W			
	3-pole (3-sensor)	1Ø2W, 1Ø3W, 3Ø3W			
	4-pole (3-sensor)	1Ø2W, 1Ø3W, 3Ø3W, 3Ø4W			
<b>Rated short-circuit breaking capacity, I<sub>cs</sub></b>		<b>N-type</b>			
AC	460V	<b>18kA</b>			
	415V	18kA			
	220/250V	<b>35kA</b>			
I <sub>cs</sub> =%×I <sub>cu</sub>		100%			
<b>Protective function</b>		Overload, Short-circuit and ground fault			
Type of trip unit		Thermal-Magnetic			
Magnetic trip range		12 × I <sub>n</sub>			
Endurance	Mechanical	25,000 operations			
	Electrical	10,000 operations			
Connection	Standard	Front connection			
	Optional	Rear connection			
Mounting		Standard Screw fixing			
<b>Dimensions (mm)</b>		Pole	2p	3p	4p
	a		75	75	100
	b		130	130	130
	c1 <small>Note)</small>		60	60	60
	c2 <small>Note)</small>		64	64	64
	d		82	82	82
	Weight, kg	Standard	0.5	0.7	0.9
<b>Certification</b>		Pole	2p	3p	4p
CE marking		CE	○	○	○

**For more information**

- Drawings ▶ 116 page
- Trip curves ▶ 101 page
- Accessories ▶ 74 page
- Connection and mounting ▶ 127 page

Note) 1. Depth by door cut size : c1 for large cut, c2 for small cut  
 2. Do not test withstand voltage or insulation resistance test between poles to avoid the damage of the PCB.  
 3. 4-pole product's ampacity on neutral conductor is equal to or less than 50% of the rated current.  
 4. Rated non-trip current sensitivity is equal to or less than 50% of the rated current sensitivity.

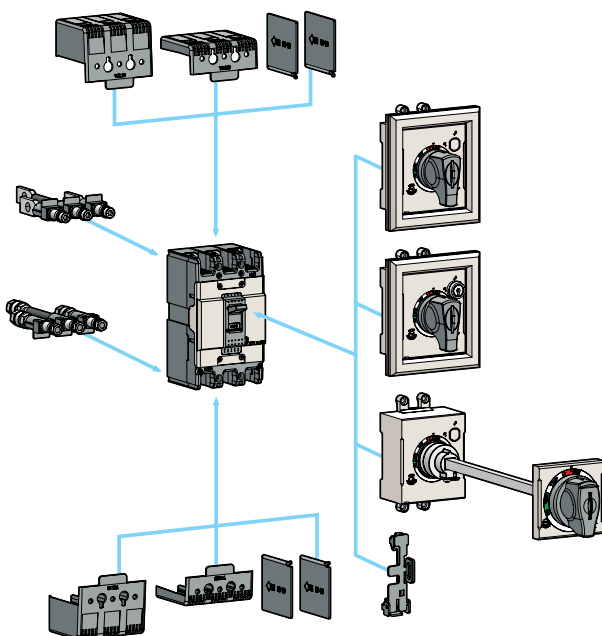
## Ordering types

### Breaker types

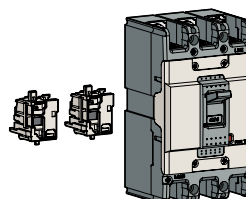
EBN type (18kA/460V)			
Rated current, I <sub>n</sub>	Rated residual current, I <sub>Δn</sub> : 30mA		
	2-pole	3-pole	4-pole
60 A	EBN102c/60/30	EBN103c/60/30	EBN104c/60/30
75 A	EBN102c/75/30	EBN103c/75/30	EBN104c/75/30
100 A	EBN102c/100/30	EBN103c/100/30	EBN104c/100/30

Rated current, I <sub>n</sub>	Rated residual current, I <sub>Δn</sub> : 100/200/500mA		
	2-pole	3-pole	4-pole
60 A	EBN102c/60/100	EBN103c/60/100	EBN104c/60/100
75 A	EBN102c/75/100	EBN103c/75/100	EBN104c/75/100
100 A	EBN102c/100/100	EBN103c/100/100	EBN104c/100/100

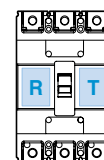


### Accessories



#### Electrical auxiliaries

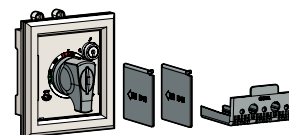
<b>AX</b>	Auxiliary switch
<b>AL</b>	Alarm switch
<b>AX+AL</b>	Combination switch



#### Maximum possibilities

<b>T-position</b>	Not available
<b>R-position</b>	Option of AX or AL or AX+AL

Note) For more detail see 74 page



#### External accessories

EBN100c	Name
<b>IB13</b>	Insulation barrier
<b>TCL13</b>	Terminal cover (Long) - Inde type, D-handle type, N-handle type
<b>TCS13</b>	Terminal cover (Short) - Inde type, D-handle type, N-handle type
<b>DH100</b>	Rotary handle (Direct)
<b>DHK100</b>	Rotary handle (Direct, Key lock)
<b>EH100</b>	Rotary handle (Extended)
<b>RTB1</b>	Rear terminal (Bar)
<b>RTR1</b>	Rear terminal (Round)
<b>Handle lock</b>	

Note) For more detail see 82 page  
 Note) For more detail see 82 page  
 • Inde type: This cover is used without auxiliary handle.  
 • D-handle type: This cover is used with D-handle.  
 • N-handle type: This cover is used with N-handle.

# 125AF ELCB

## EBS125c, EBH125c



EBS103c



EBH103c

### Ratings

Frame size		125AF				
<b>Type and pole</b>		<b>S-type</b>		<b>H-type</b>		
	2-pole (2-sensor)	-		-		
	3-pole (3-sensor)	<b>EBS103c</b>		<b>EBH103c</b>		
	4-pole (3-sensor)	<b>EBS104c</b>		<b>EBH104c</b>		
Rated current, I <sub>n</sub>		15-20-30-40-50-60-75-100-125A				
Rated residual current, I <sub>Δn</sub>		30, 100/200/500mA (Adjustable)				
Residual current off-time at I <sub>Δn</sub>		≤ 0.1 sec				
Rated operational voltage, U <sub>e</sub>		AC: 220/460V				
Rated impulse withstand voltage, U <sub>imp</sub>		6kV				
Wiring system	2-pole (2-sensor)	-				
	3-pole (3-sensor)	1Ø2W, 1Ø3W, 3Ø3W				
	4-pole (3-sensor)	1Ø2W, 1Ø3W, 3Ø3W, 3Ø4W				
<b>Rated short-circuit breaking capacity, I<sub>cu</sub></b>		<b>N-type</b>		<b>S-type</b>		
AC	460V	<b>37kA</b>		<b>50kA</b>		
	415V	37kA		50kA		
	<b>220/250V</b>	<b>85kA</b>		<b>100kA</b>		
I <sub>cs</sub> =%×I <sub>cu</sub>		100%		100%		
<b>Protective function</b>		Overload, Short-circuit and ground fault				
Type of trip unit		Thermal-Magnetic				
Magnetic trip range		12×I <sub>n</sub> (30A and under: 400A)				
Endurance	Mechanical	25,000 operations				
	Electrical	10,000 operations				
Connection	Standard	Front connection				
	Optional	Rear connection				
Mounting	Standard	Screw fixing				
<b>Dimensions (mm)</b>		Pole	3p	4p	3p	4p
	a		90	120	90	120
	b		155	155	155	155
	c1 <small>Note)</small>		60	60	60	60
	c2 <small>Note)</small>		64	64	64	64
	d		82	82	82	82
Weight, kg	Standard		1	1.2	1	1.2
<b>Certification</b>		Pole	3p	4p	3p	4p
CE marking		CE	○	○	○	○

#### For more information

- Drawings ▶ 117 page
- Trip curves ▶ 102 page
- Accessories ▶ 74 page
- Connection and mounting ▶ 127 page

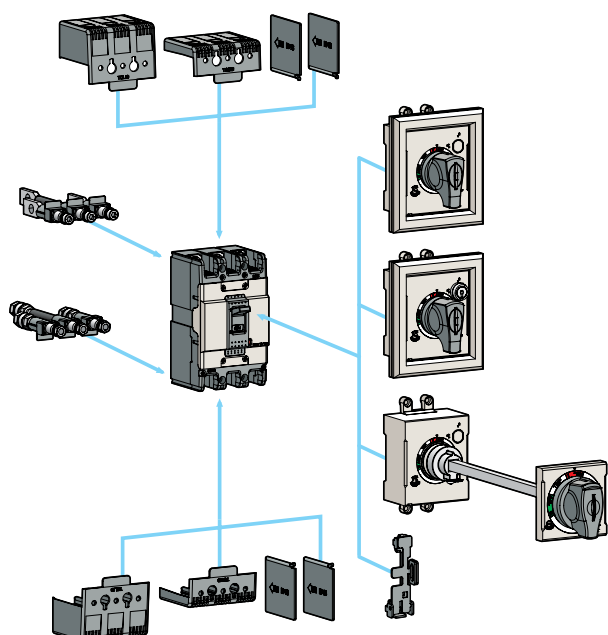
Note) 1. Depth by door cut size : c1 for large cut, c2 for small cut  
 2. Do not test withstand voltage or insulation resistance test between poles to avoid the damage of the PCB.  
 3. 4-pole product's ampacity on neutral conductor is equal to or less than 50% of the rated current.  
 4. Rated non-trip current sensitivity is equal to or less than 50% of the rated current sensitivity.

## Ordering types

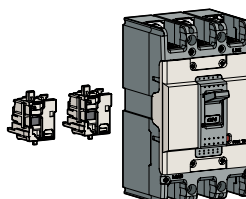
### Breaker types

EBS type (37kA/460V)				
Rated current, I <sub>n</sub>	Rated residual current, I <sub>Δn</sub> : 30mA		Rated residual current, I <sub>Δn</sub> : 100/200/500mA	
	3-pole	4-pole	3-pole	4-pole
15 A	EBS103c/15/30	EBS104c/15/30	EBS103c/15/100	EBS104c/15/100
20 A	EBS103c/20/30	EBS104c/20/30	EBS103c/20/100	EBS104c/20/100
30 A	EBS103c/30/30	EBS104c/30/30	EBS103c/30/100	EBS104c/30/100
40 A	EBS103c/40/30	EBS104c/40/30	EBS103c/40/100	EBS104c/40/100
50 A	EBS103c/50/30	EBS104c/50/30	EBS103c/50/100	EBS104c/50/100
60 A	EBS103c/60/30	EBS104c/60/30	EBS103c/60/100	EBS104c/60/100
75 A	EBS103c/75/30	EBS104c/75/30	EBS103c/75/100	EBS104c/75/100
100 A	EBS103c/100/30	EBS104c/100/30	EBS103c/100/100	EBS104c/100/100
125 A	EBS103c/125/30	EBS104c/125/30	EBS103c/125/100	EBS104c/125/100

EBH type (50kA/460V)				
Rated current, I <sub>n</sub>	Rated residual current, I <sub>Δn</sub> : 30mA		Rated residual current, I <sub>Δn</sub> : 100/200/500mA	
	3-pole	4-pole	3-pole	4-pole
15 A	EBH103c/15/30	EBH104c/15/30	EBH103c/15/100	EBH104c/15/100
20 A	EBH103c/20/30	EBH104c/20/30	EBH103c/20/100	EBH104c/20/100
30 A	EBH103c/30/30	EBH104c/30/30	EBH103c/30/100	EBH104c/30/100
40 A	EBH103c/40/30	EBH104c/40/30	EBH103c/40/100	EBH104c/40/100
50 A	EBH103c/50/30	EBH104c/50/30	EBH103c/50/100	EBH104c/50/100
60 A	EBH103c/60/30	EBH104c/60/30	EBH103c/60/100	EBH104c/60/100
75 A	EBH103c/75/30	EBH104c/75/30	EBH103c/75/100	EBH104c/75/100
100 A	EBH103c/100/30	EBH104c/100/30	EBH103c/100/100	EBH104c/100/100
125 A	EBH103c/125/30	EBH104c/125/30	EBH103c/125/100	EBH104c/125/100

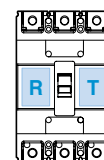


### Accessories



#### Electrical auxiliaries

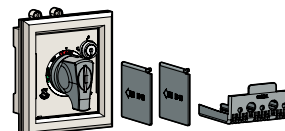
<b>AX</b>	Auxiliary switch
<b>AL</b>	Alarm switch
<b>AX+AL</b>	Combination switch



#### Maximum possibilities

<b>T-position</b>	Not available
<b>R-position</b>	Option of AX or AL or AX+AL

Note) For more detail see 74 page



#### External accessories

EBS60c EBN60c	Name
<b>IB23</b>	Insulation barrier
<b>TCL23</b>	Terminal cover (Long) - Inde type, D-handle type, N-handle type
<b>TCS23</b>	Terminal cover (Short) - Inde type, D-handle type, N-handle type
<b>DH125</b>	Rotary handle (Direct)
<b>DHK125</b>	Rotary handle (Direct, Key lock)
<b>EH125</b>	Rotary handle (Extended)
<b>RTB2</b>	Rear terminal (Bar)
<b>RTR2</b>	Rear terminal (Round)
<b>Handle lock</b>	

Note) For more detail see 82 page

- Inde type: This cover is used without auxiliary handle.
- D-handle type: This cover is used with D-handle.
- N-handle type: This cover is used with N-handle.



# 250AF ELCB

## EBN250c, EBS250c, EBH250c



EBN203c



EBS203c

### Ratings

Frame size		250AF						
<b>Type and pole</b>		<b>N-type</b>		<b>S-type</b>		<b>H-type</b>		
	2-pole (2-sensor)	<b>EBN202c</b>		-		-		
	3-pole (3-sensor)	<b>EBN203c</b>		<b>EBS203c</b>		<b>EBH203c</b>		
	4-pole (3-sensor)	-		<b>EBS204c</b>		<b>EBH204c</b>		
Rated current, I <sub>n</sub>		100-125-150-175-200-225-250A						
Rated residual current, I <sub>Δn</sub>		30, 100/200/500mA (Adjustable)						
Residual current off-time at I <sub>Δn</sub>		≤ 0.1 sec						
Rated operational voltage, U <sub>e</sub>		AC: 220/460V						
Rated impulse withstand voltage, U <sub>imp</sub>		6kV						
Wiring system	2-pole (2-sensor)	1Ø2W						
	3-pole (3-sensor)	1Ø2W, 1Ø3W, 3Ø3W						
	4-pole (3-sensor)	1Ø2W, 1Ø3W, 3Ø3W, 3Ø4W						
<b>Rated short-circuit breaking capacity, I<sub>cu</sub></b>		<b>N-type</b>		<b>S-type</b>		<b>H-type</b>		
AC	460V	<b>26kA</b>		<b>37kA</b>		<b>50kA</b>		
	415V	26kA		37kA		50kA		
	<b>220/250V</b>	<b>65kA</b>		<b>85kA</b>		<b>100kA</b>		
I <sub>cs</sub> =%×I <sub>cu</sub>		100%		100%		100%		
<b>Protective function</b>		Overload, Short-circuit and ground fault						
Type of trip unit		Thermal-Magnetic						
Magnetic trip range		12×I <sub>n</sub>						
Endurance	Mechanical	20,000 operations						
	Electrical	5,000 operations						
Connection	Standard	Front connection						
	Optional	Rear connection						
Mounting		Standard Screw fixing						
<b>Dimensions (mm)</b>		Pole	2p	3p	3p	4p	3p	4p
		a	105	105	105	140	105	140
		b	165		165		165	
		c1 <small>Note)</small>	60		60		60	
		c2 <small>Note)</small>	64		64		64	
		d	87		87		87	
		Weight, kg	Standard	1.1	1.2	1.2	1.5	1.2
<b>Certification</b>		Pole	2p	3p	3p	4p	3p	4p
CE marking		CE	○	○	○	○	○	

#### For more information

- Drawings ▶ 118 page
- Trip curves ▶ 103 page
- Accessories ▶ 74 page
- Connection and mounting ▶ 127 page

Note) 1. Depth by door cut size : c1 for large cut, c2 for small cut  
 2. Do not test withstand voltage or insulation resistance test between poles to avoid the damage of the PCB.  
 3. 4-pole product's ampacity on neutral conductor is equal to or less than 50% of the rated current.  
 4. Rated non-trip current sensitivity is equal to or less than 50% of the rated current sensitivity.

## Ordering types

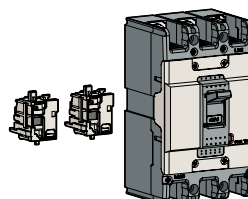
### Breaker types

EBN type (25kA/460V)				
Rated current, In	Rated residual current, I $\Delta$ n: 30mA		Rated residual current, I $\Delta$ n: 100/200/500mA	
	2-pole	3-pole	2-pole	3-pole
100 A	EBN202c/100/30	EBN203c/100/30	EBN202c/100/100	EBN203c/100/100
125 A	EBN202c/125/30	EBN203c/125/30	EBN202c/125/100	EBN203c/125/100
150 A	EBN202c/150/30	EBN203c/150/30	EBN202c/150/100	EBN203c/150/100
175 A	EBN202c/175/30	EBN203c/175/30	EBN202c/175/100	EBN203c/175/100
200 A	EBN202c/200/30	EBN203c/200/30	EBN202c/200/100	EBN203c/200/100
225 A	EBN202c/225/30	EBN203c/225/30	EBN202c/225/100	EBN203c/225/100
250 A	EBN202c/250/30	EBN203c/250/30	EBN202c/250/100	EBN203c/250/100

EBS type (37kA/460V)				
Rated current, In	Rated residual current, I $\Delta$ n: 30mA		Rated residual current, I $\Delta$ n: 100/200/500mA	
	3-pole	4-pole	3-pole	4-pole
100 A	EBS203c/100/30	EBS204c/100/30	EBS203c/100/100	EBS204c/100/100
125 A	EBS203c/125/30	EBS204c/125/30	EBS203c/125/100	EBS204c/125/100
150 A	EBS203c/150/30	EBS204c/150/30	EBS203c/150/100	EBS204c/150/100
175 A	EBS203c/175/30	EBS204c/175/30	EBS203c/175/100	EBS204c/175/100
200 A	EBS203c/200/30	EBS204c/200/30	EBS203c/200/100	EBS204c/200/100
225 A	EBS203c/225/30	EBS204c/225/30	EBS203c/225/100	EBS204c/225/100
250 A	EBS203c/250/30	EBS204c/250/30	EBS203c/250/100	EBS204c/250/100

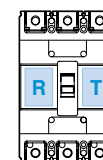
EBH type (50kA/460V)				
Rated current, In	Rated residual current, I $\Delta$ n: 30mA		Rated residual current, I $\Delta$ n: 100/200/500mA	
	3-pole	4-pole	3-pole	4-pole
100 A	EBH203c/100/30	EBH204c/100/30	EBH203c/100/100	EBH204c/100/100
125 A	EBH203c/125/30	EBH204c/125/30	EBH203c/125/100	EBH204c/125/100
150 A	EBH203c/150/30	EBH204c/150/30	EBH203c/150/100	EBH204c/150/100
175 A	EBH203c/175/30	EBH204c/175/30	EBH203c/175/100	EBH204c/175/100
200 A	EBH203c/200/30	EBH204c/200/30	EBH203c/200/100	EBH204c/200/100
225 A	EBH203c/225/30	EBH204c/225/30	EBH203c/225/100	EBH204c/225/100
250 A	EBH203c/250/30	EBH204c/250/30	EBH203c/250/100	EBH204c/250/100

### Accessories



#### Electrical auxiliaries

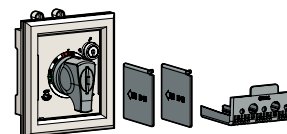
AX	Auxiliary switch
AL	Alarm switch
AX+AL	Combination switch



#### Maximum possibilities

T-position	Not available
R-position	Option of AX or AL or AX+AL

Note) For more detail see 74 page



#### External accessories

EBN250c EBS250c EBH250c	Name
IB23	Insulation barrier
TCL33	Terminal cover (Long) - Inde type, D-handle type, N-handle type
TCS33	Terminal cover (Short) - Inde type, D-handle type, N-handle type
DH250	Rotary handle (Direct)
DHK250	Rotary handle (Direct, Key lock)
EH250	Rotary handle (Extended)
RTB3	Rear terminal (Bar)
RTR3	Rear terminal (Round)
Handle lock	

Note) For more detail see 82 page

- Inde type: This cover is used without auxiliary handle.
- D-handle type: This cover is used with D-handle.
- N-handle type: This cover is used with N-handle.

# 400AF ELCB

## EBN400c, EBS400c, EBH400c, EBL400c



EBS403c



EBL404c

### Ratings

Frame size		400AF								
Type and pole		N-type		S-type		H-type		L-type		
	3-pole (3-sensor)	<b>EBN403c</b>		<b>EBS403c</b>		<b>EBH403c</b>		<b>EBL403c</b>		
	4-pole (3-sensor)	<b>EBN404c</b>		<b>EBS404c</b>		<b>EBH404c</b>		<b>EBL404c</b>		
Rated current, I <sub>n</sub>		250-300-350-400A								
Rated residual current, I <sub>Δn</sub>		30, 100/200/500mA (Adjustable)								
Residual current off-time at I <sub>Δn</sub>		≤0.1 sec								
Rated operational voltage, U <sub>e</sub>		220/460V								
Rated impulse withstand voltage, U <sub>imp</sub>		6kV								
Wiring system	2-pole (2-sensor)	1Ø2W, 1Ø3W, 3Ø3W								
	3-pole (3-sensor)	1Ø2W, 1Ø3W, 3Ø3W, 3Ø4W								
	4-pole (3-sensor)	1Ø2W, 1Ø3W, 3Ø3W, 3Ø4W								
Rated short-circuit breaking capacity, I <sub>cu</sub>		N-type		S-type		H-type		L-type		
AC	415V/460V	<b>37kA</b>		<b>50kA</b>		<b>65kA</b>		<b>85kA</b>		
	220/250V	<b>50kA</b>		<b>75kA</b>		<b>85kA</b>		<b>125kA</b>		
I <sub>cs</sub> =%×I <sub>cu</sub>		100%		100%		100%		75%		
Protective function		Overload, Short-circuit and ground fault								
Type of trip unit		Thermal-Magnetic								
Magnetic trip range		8~12I <sub>n</sub>								
Endurance	Mechanical	4,000 operations								
	Electrical	1,000 operations								
Connection		Standard Front connection								
Mounting		Standard Screw fixing								
Dimensions (mm)		Pole	3p	4p	3p	4p	3p	4p	3p	4p
		a	140	184	140	184	140	184	140	184
		b	257		257		257		257	
		c1 <small>Note)</small>	109		109		109		109	
		c2 <small>Note)</small>	113		113		113		113	
		d	145		145		145		145	
Weight, kg		Standard	7	8.4	7	8.4	7	8.4	7	8.4
Certification		Pole	3p	4p	3p	4p	3p	4p	3p	4p
CE marking			-	-	-	-	-	-	-	-

Note) 1. Depth by door cut size : c1 for large cut, c2 for small cut  
 2. Do not test withstand voltage or insulation resistance test between poles to avoid the damage of the PCB.  
 3. 4-pole product's ampacity on neutral conductor is equal to or less than 50% of the rated current.  
 4. Rated non-trip current sensitivity is equal to or less than 50% of the rated current sensitivity.

#### For more information

- Drawings ▶ 119 page
- Trip curves ▶ 104 page
- Accessories ▶ 75 page
- Connection and mounting ▶ 128 page

## Ordering types

### Breaker types

#### EBN type (25kA/460V)

Rated current, In	Rated residual current, I $\Delta$ n: 30mA		Rated residual current, I $\Delta$ n: 100/200/500mA	
	3-pole	4-pole	3-pole	4-pole
250 A	EBN403c/250/30	EBN404c/250/30	EBN403c/250/100	EBN404c/250/100
300 A	EBN403c/300/30	EBN404c/300/30	EBN403c/300/100	EBN404c/300/100
350 A	EBN403c/350/30	EBN404c/350/30	EBN403c/350/100	EBN404c/350/100
400 A	EBN403c/400/30	EBN404c/400/30	EBN403c/400/100	EBN404c/400/100

#### EBS type (50kA/460V)

Rated current, In	Rated residual current, I $\Delta$ n: 30mA		Rated residual current, I $\Delta$ n: 100/200/500mA	
	3-pole	4-pole	3-pole	4-pole
250 A	EBS403c/250/30	EBS404c/250/30	EBS403c/250/100	EBS404c/250/100
300 A	EBS403c/300/30	EBS404c/300/30	EBS403c/300/100	EBS404c/300/100
350 A	EBS403c/350/30	EBS404c/350/30	EBS403c/350/100	EBS404c/350/100
400 A	EBS403c/400/30	EBS404c/400/30	EBS403c/400/100	EBS404c/400/100

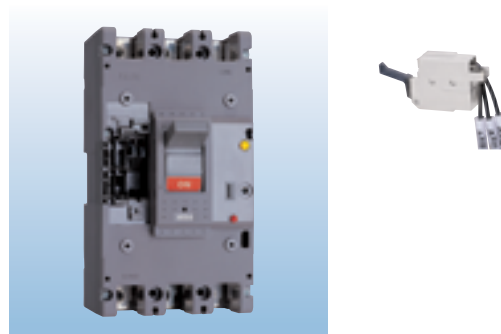
#### EBH type (65kA/460V)

Rated current, In	Rated residual current, I $\Delta$ n: 30mA		Rated residual current, I $\Delta$ n: 100/200/500mA	
	3-pole	4-pole	3-pole	4-pole
250 A	EBH403c/250/30	EBH404c/250/30	EBH403c/250/100	EBH404c/250/100
300 A	EBH403c/300/30	EBH404c/300/30	EBH403c/300/100	EBH404c/300/100
350 A	EBH403c/350/30	EBH404c/350/30	EBH403c/350/100	EBH404c/350/100
400 A	EBH403c/400/30	EBH404c/400/30	EBH403c/400/100	EBH404c/400/100

#### EBL type (85kA/460V)

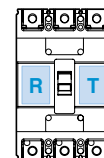
Rated current, In	Rated residual current, I $\Delta$ n: 30mA		Rated residual current, I $\Delta$ n: 100/200/500mA	
	3-pole	4-pole	3-pole	4-pole
250 A	EBL403c/250/30	EBL404c/250/30	EBL403c/250/100	EBL404c/250/100
300 A	EBL403c/300/30	EBL404c/300/30	EBL403c/300/100	EBL404c/300/100
350 A	EBL403c/350/30	EBL404c/350/30	EBL403c/350/100	EBL404c/350/100
400 A	EBL403c/400/30	EBL404c/400/30	EBL403c/400/100	EBL404c/400/100

### Accessories



#### Electrical auxiliaries

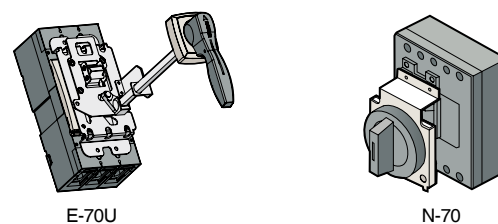
<b>AX</b>	Auxiliary switch
<b>AL</b>	Alarm switch
<b>SHT</b>	Shunt trip
<b>UVT</b>	Undervoltage trip



#### Maximum possibilities

<b>T-position</b>	Not available
<b>R-position</b>	Option of 2AX, 2AL and SHT or UVT

Note) For more detail see 75 page



#### External accessories

<b>IBL400</b>	Insulation barrier
<b>T1-43A</b>	Terminal cover (Long) - 2, 3pole
<b>T1-44A</b>	Terminal cover (Long) - 4pole
<b>N-70</b>	Rotary handle (Direct)
<b>E-70U</b>	Rotary handle (Extended)
<b>MI-43</b>	Mechanical interlock - 2, 3pole
<b>MI-44</b>	Mechanical interlock - 4pole

Note) For more detail see 82 page

# 800AF ELCB

## EBN803c, EBS803c, EBL803c



EBS803c

### Ratings

Frame size		100AF		
<b>Type and pole</b>		<b>N-type</b>	<b>S-type</b>	<b>L-type</b>
	3-pole (3-sensor)	<b>EBN803c</b>	<b>EBS803c</b>	<b>EBL803c</b>
	4-pole (3-sensor)	-	-	-
Rated current, I <sub>n</sub>		500-630-700-800A		
Rated residual current, I <sub>Δn</sub>		30, 100/200/500mA (Adjustable)		
Residual current off-time at I <sub>Δn</sub>		≤0.1 sec		
Rated operational voltage, U <sub>e</sub>		220/460V		
Rated impulse withstand voltage, U <sub>imp</sub>		6 kV		
Wiring system	3-pole (3-sensor)	1Ø2W, 1Ø3W, 3Ø3W		
	4-pole (3-sensor)	-		
<b>Rated short-circuit breaking capacity, I<sub>cu</sub></b>		<b>N-type</b>	<b>S-type</b>	<b>L-type</b>
AC	415/460V	<b>37kA</b>	<b>65kA</b>	<b>85kA</b>
	220/250V	<b>50kA</b>	<b>85kA</b>	<b>125kA</b>
I <sub>cs</sub> =%×I <sub>cu</sub>		100%	100%	75%
<b>Protective function</b>		Overload, Short-circuit and ground fault		
Type of trip unit		Thermal-Magnetic		
Magnetic trip range		8-12I <sub>n</sub>		
Endurance	Mechanical	2,500 operations		
	Electrical	500 operations		
Connection		Standard		
Mounting		Standard		
<b>Dimensions (mm)</b>		Pole	3p	
	a	210		
	b	280		
	c1 <small>Note)</small>	109		
	c2 <small>Note)</small>	113		
	d	145		
	Weight, kg	Standard	11.5	
<b>Certification</b>		Pole	3p	
CE marking		CE	-	

#### For more information

- Drawings ▶ 120 page
- Trip curves ▶ 104 page
- Accessories ▶ 75 page
- Connection and mounting ▶ 127 page

Note) 1. Depth by door cut size : c1 for large cut, c2 for small cut  
 2. Do not test withstand voltage or insulation resistance test between poles to avoid the damage of the PCB.  
 3. Rated non-trip current sensitivity is equal to or less than 50% of the rated current sensitivity.