30AF ELCB EBS30c



EBS33c

Ratings

Frame size			30AF			
Type and pole		S-type				
	2-pole (2	2-sensor)		EBS32c		
	3-pole (3-sensor)		EBS33c			
	4-pole (3	3-sensor)		EBS	634c	
Rated current, In				(5-10) Note)	⁴ -15-20-30A	
Rated residual currer	nt, I∆n		;	30, 100/200/500	0mA (Adjustable)	
Residual current off-ti	ime at l∆n			≤0.	1 sec	
Rated operational vol	ltage, Ue			AC: 22	20/460V	
Rated impulse withsta	and voltage	e, Uimp		6	kV	
Wiring system	2-pole (2	2-sensor)		1Ø	2W	
	3-pole (3	3-sensor)		1Ø2W, 1Ø	3W, 3Ø3W	
	4-pole (3	3-sensor)		1Ø2W, 1Ø3W	, 3Ø3W, 3Ø4W	
Rated short-circuit I	breaking			S-t	уре	
capacity, Icu	AC	460V	14 (10) kA			
		415V	14 (10) kA			
		220/250V	30 (25) kA			
lcs=%×lcu			100%			
Protective functio	n		Overload, Short-circuit and ground fault			
Type of trip unit			Thermal-Magnetic			
Magnetic trip range	;		400A			
Endurance	Mechan	ical	25,000 operations			
	Electrica	al	10,000 operations			
Connection	Standard		Front connection			
	Optiona	Optional		Rear connection		
				Screv	w fixing	
Mounting	Standar	d		Screv	r fixing	
Dimensions (mm)		Pole	2p	3p	4p	
<u>, d</u>	_	а		75	100	
a c2 c1		b		130	130	
		c1 Note)		60	60	
		c2 Note)		64	64	
		d	82		82	
Weight, kg		Standard	0.5 0.7		0.9	
- 3 , 3			3p			
Certification		Pole		3р	4p	

- 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. The short-circuit breaking capacities in () are applied to the rated current in (5, 10A)
 4. 4-pole product's ampacity on neutral conductor is equal to or less than 50% of the rated current.
 5. Rated non-trip current sensitivity is equal to or less than 50% of the rated current sensitivity.

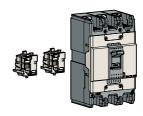
Breaker types

EBS type (14kA/460V)						
	Rated residual current, I△n: 30mA					
Rated current, In	2-pole	3-pole	4-pole			
5 A	EBS32c/5/30	EBS33c/5/30	EBS34c/5/30			
10 A	EBS32c/10/30	EBS33c/10/30	EBS34c/10/30			
15 A	EBS32c/15/30	EBS33c/15/30	EBS34c/15/30			
20 A	EBS32c/15/30	EBS33c/20/30	EBS34c/20/30			
30 Δ	FRS32c/30/30	EBS33c/30/30	FRS34c/30/30			

EBS type (14kA/460V)

Datad assessed in	Rated residual current, I△n: 100/200/500mA					
Rated current, In	2-pole	3-pole	4-pole			
5 A	EBS32c/5/100	EBS33c/5/100	EBS34c/5/100			
10 A	EBS32c/10/100	EBS33c/10/100	EBS34c/10/100			
15 A	EBS32c/15/100	EBS33c/15/100	EBS34c/15/100			
20 A	EBS32c/20/100	EBS33c/20/100	EBS34c/20/100			
30 A	EBS32c/30/100	EBS33c/30/100	EBS34c/30/100			

Accessories



Electrical auxiliaries

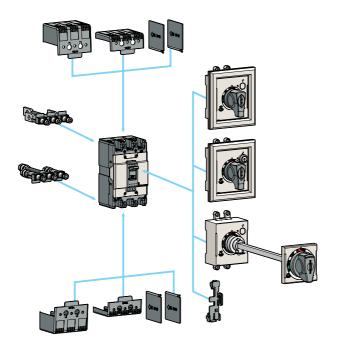
AX	Auxiliary switch
AL	Alarm switch
AX+AL	Combination switch



Maximum possibilities

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

Note) For more detail see 74 page





EBS30c	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)
RTR1	Rear terminal (Bar)
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.

50AF ELCB EBN50c, EBS50c, EBH50c

Ratings







EBS53c

Frame size					50	AF		
Type and pole			N-t	уре	S-t	уре	H-t	уре
	2-pole (2	2-sensor)	EBN	N52c		-		
	3-pole (3	3-pole (3-sensor)		N53c	EBS	S53c	EBH	153c
	4-pole (3	3-sensor)		-	EBS	S54c	EBH	154c
Rated current, In					15-20-3	0-40-50A		
Rated residual currer	ıt, I∆n			30, 10	0/200/500	mA (Adju	stable)	
Residual current off-ti	me at l△n	ĺ			≤0.	1 sec		
Rated operational vol	tage, Ue				AC: 22	20/460V		
Rated impulse withsta	and voltag	e, Uimp			6	kV		
Wiring system	2-pole (2	2-sensor)			1Ø	12W		
	3-pole (3	3-sensor)		1	Ø2W, 1Ø	13W, 3Ø3V	٧	
	4-pole (3	3-sensor)		1Ø2\	W, 1Ø3W	, 3Ø3W, 3	Ø4W	
Rated short-circuit I	oreaking		N-t	уре	S-t	уре	H-t	уре
capacity, Icu	AC	460V	14	kA	18kA		50	kA
		415V	14kA		18kA		50kA	
		220/250V	30kA		35kA		100kA	
lcs=%×lcu			10	100% 100% 100		0%		
Protective functio	n		Overload, Short-circuit and ground fault					
Type of trip unit			Thermal-Magnetic					
Magnetic trip range	;		12×In (30A and under: 400A)					
Endurance	Mechan	ical			25,000 o	perations		
	Electrica	al	10,000 operations					
Connection	Standar	rd	Front connection					
	Optiona	l			Rear co	nnection		
Mounting	Standar	^r d			Screv	v fixing		
Dimensions (mm)		Pole	2p	Зр	Зр	4p	Зр	4p
d	1	а	75	75	75	100	90	120
a c2 c1		b	1:	30	1:	30	15	55
	_	c1 Note)	6	80	60		60	
		c2 Note)	6	64	6	64	6	4
		d	8	32	8	32	8	2
Weight, kg		Standard	0.5	0.7	0.7	0.9	1	1.2
Certification		Pole	2p	Зр	3р	4p	Зр	4p
CE marking		(€		0		0)

For more information

• Drawings ▶ 116, 117 page • Trip curves ▶ 101, 102 page

▶ 74 page Accessories

• 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.

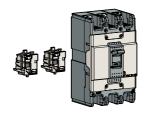
Breaker types

EBN type (14kA/460V)					
Rated		Rated residual current, I∆n: 30mA		lual current, 200/500mA	
current, In	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	I∆n: 30mA			ual current, 200/500mA		
current, In	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	Rated resid I△n:	ual current, 30mA	Rated residual current, I△n: 100/200/500mA			
current, In	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		

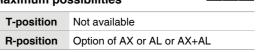
Accessories



Electrical auxiliaries

AX	Auxiliary switch
AL	Alarm switch
AX+AL	Combination switch

Maximum possibilities



Note) For more detail see 74 page



EBN50c EBS50c	ЕВН50с	Name
IB13	IB23	Insulation barrier
TCL13	TCL23	Terminal cover (Long) - Inde type, D-handle type, N-handle type
TCS13	TCS23	Terminal cover (Short) - Inde type, D-handle type, N-handle type
DH100	DH125	Rotary handle (Direct)
DHK100	DHK125	Rotary handle (Direct, Key lock)
EH100	EH125	Rotary handle (Extended)
-	RTB2	Rear terminal (Bar)
RTR1	RTR2	Rear terminal (Round)
Hand	le 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.

60AF ELCB

EBN60c, EBS60c

EBN63c



For more information

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

Ratings

Frame size			60AF		
Type and pole		N-type	S-ty	уре	
	2-pole (2	-sensor)	-		
	3-pole (3	-sensor)	EBN63c	EBS	63c
	4-pole (3	-sensor)	-	EBS	64c
Rated current, In			60)A	
Rated residual curren	t, l∆n		30, 100/200/500	mA (Adjustable	e)
Residual current off-ti	me at l∆n		≤0.1	sec	
Rated operational vol	tage, Ue		AC: 22	0/460V	
Rated impulse withsta	and voltage	e, Uimp	6k	۲V	
Wiring system	2-pole (2	-sensor)	-	-	
	3-pole (3	-sensor)	1Ø2W, 1Ø	3W, 3Ø3W	
	4-pole (3	-sensor)	1Ø2W, 1Ø3W,	3Ø3W, 3Ø4W	1
Rated short-circuit b	oreaking		N-type	S-ty	уре
capacity, Icu	AC	460V	14kA	18	kA
		415V	14kA	18	kA
		220/250V	30kA	35kA	
lcs=%xlcu		100%	100%		
Protective function		Overload, Short-circ	cuit and ground	l fault	
Type of trip unit			Thermal-Magnetic		
Magnetic trip range			12×ln		
Endurance	Mechan	ical	25,000 operations		
	Electrica	ıl	10,000 operations		
Connection	Standar	d	Front connection		
	Optional		Rear connection		
			Screw fixing		
Mounting	Standar	d	Screw	fixing	
Dimensions (mm)		Pole	3р	3р	4p
d,		а	75	75	100
a c2 c1		b	130	130	130
		c1 Note)	60	60	60
		c2 Note)	64	64	64
		d	82	82	82
Mojaht ka		Standard	0.7	0.7	0.9
Weight, kg					
Certification		Pole	3р	3р	4p

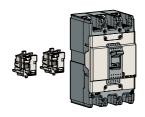
- Note) 1. Depth by door cut size: C1 for large cut, C2 for small cut
 2. Do not test withstand voltage or insulation resistance test between poles to avoid the damage of the PCB.
 3. 4-pole product's ampacity on neutral conductor is equal to or less than 50% of the rated current.
 4. Rated non-trip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

Breaker types

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

EBS type (18kA/460V)				
Rated	I∆n: 30mA I∆n: 100/200/500mA			
current, In	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



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)
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.

100AF ELCB EBN100c

EBN103c

Ratings

Frame size				100AF		
Type and pole			N-type			
2-pole (2		2-sensor)	EBN102c			
	3-pole (3	3-sensor)		EBN103c		
	4-pole (3	3-sensor)		EBN104c		
Rated current, In				60-75-100A		
Rated residual curren	ıt, I∆n		30, 10	0/200/500mA (Adju	stable)	
Residual current off-ti	me at l∆n			≤0.1 sec		
Rated operational vol	tage, Ue			AC: 220/460V		
Rated impulse withsta	and voltage	e, Uimp		6kV		
Wiring system	2-pole (2	2-sensor)		1Ø2W		
	3-pole (3	3-sensor)	1	Ø2W, 1Ø3W, 3Ø3V	V	
	4-pole (3	3-sensor)	1Ø2\	N, 1Ø3W, 3Ø3W, 3	Ø4W	
Rated short-circuit t	oreaking			N-type		
capacity, Icu	AC	460V		18kA		
		415V		18kA		
		220/250V		35kA		
lcs=%xlcu			100%			
Protective functio	rotective function Overload, Short-circuit and ground faul		ound fault			
Type of trip unit				Thermal-Magnetic		
Magnetic trip range			12×In			
Endurance	Mechan	ical	25,000 operations			
	Electrica	al	10,000 operations			
Connection	Standar	d		Front connection		
	Optiona	l		Rear connection		
Mounting	Standar	d		Screw fixing		
Dimensions (mm)		Pole	2p	3р	4p	
d	4	а	75	75	100	
a c2 c1	-	b	130	130	130	
		c1 Note)	60	60	60	
		c2 Note)	64	64	64	
	•	d	82	82	82	
Weight, kg		Standard	0.5	0.7	0.9	
Certification		Pole	2p	Зр	4p	
CE marking		(€ 0 0		0	0	

For more information

• Drawings ▶ 116 page • Trip curves ▶ 101 page

 Accessories ▶ 74 page • Connection and mounting ▶ 127 page

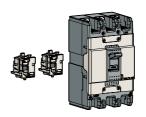
Note) 1. Depth by door cut size: c1 for large cut, c2 for small cut
2. Do not test withstand voltage or insulation resistance test between poles to avoid the damage of the PCB.
3. 4-pole product's ampacity on neutral conductor is equal to or less than 50% of the rated current.
4. Rated non-trip current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

Breaker types

EBN type (18kA/460V)					
Rated residual current, I △ n: 30mA					
Rated current, In	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		

Dated assessed in	Rated residual current, I △n: 100/200/500mA			
Rated current, In 2-pole 3-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

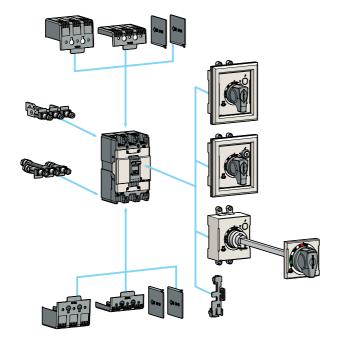
AX	Auxiliary switch	
AL	Alarm switch	
AX+AL	Combination switch	



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

EBN100c	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)
Handle lock	

Note) For more detail see 82 pageNote) 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

Ratings



EBS103c



EBH103c

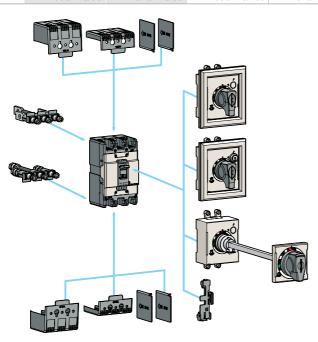
Frame size			125AF			
Type and pole			S-t	уре	H-ty	/pe
	2-pole (2-sensor)		•	-	
	3-pole ((3-sensor)	EBS103c		EBH1	103c
	4-pole ((3-sensor)	EBS	104c	EBH104c	
Rated current, In			15	5-20-30-40-50-	60-75-100-125	A
Rated residual currer	nt, I∆n		3	0, 100/200/500	mA (Adjustable)
Residual current off-t	ime at I∆	n		≤0.	1 sec	
Rated operational vo	ltage, Ue			AC: 22	0/460V	
Rated impulse withst	and voltaç	ge, Uimp		61	κV	
Wiring system	2-pole (2-sensor)			-	
	3-pole ((3-sensor)		1Ø2W, 1Ø	3W, 3Ø3W	
	4-pole ((3-sensor)		1Ø2W, 1Ø3W,	3Ø3W, 3Ø4W	
Rated short-circuit breaking		N-t	уре	S-ty	ре	
capacity, Icu	AC	460V	37kA		501	(A
		415V	37kA		50kA	
		220/250V	85kA		100kA	
lcs=%×lcu			100% 100%)%
Protective function	n		Overload, Short-circuit and ground fault			
Type of trip unit			Thermal-Magnetic			
Magnetic trip range)		12×In (30A and under: 400A)			
Endurance	Mechai	nical		25,000 d	perations	
	Electric	al		10,000 c	perations	
Connection	Standa	rd	Front connection			
	Optiona	al		Rear co	nnection	
Mounting	Standa	rd		Screw	fixing	
Dimensions (mm)		Pole	Зр	4p	3р	4p
		а	90	120	90	120
		b	155	155	155	155
		c1 Note)	60	60	60	60
		c2 Note)	64	64	64	64
		d	82	82	82	82
Weight, kg		Standard	1	1.2	1	1.2
Certification		Pole	Зр	4p	Зр	4p
CE marking		(€	0	0	0	0

- Drawings ▶ 117 page ▶ 102 page • Trip curves • 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.

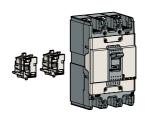
Breaker types

EBS type (37kA/460V)								
Rated		ual current, 30mA	Rated residual current, I∆n: 100/200/500mA					
current, In	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		lual current, 30mA	Rated residual current, I△n: 100/200/500mA				
current, In	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

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



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

250AF ELCB EBN250c, EBS250c, EBH250c

EBN203c



EBS203c

For more information

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

Ratings

Frame size	250AF								
Type and pole		N-1	уре	S-t	уре	H-t	уре		
	2-pole (2	2-sensor)	EBN	202c		_		•	
	3-pole (3	3-sensor)	EBN	203c	EBS	203c	EBH	203c	
4-pole		3-sensor)		-	EBS	EBS204c		204c	
Rated current, In				100-12	25-150-17	5-200-225	5-250A		
Rated residual curren	ıt, I∆n			30, 10	0/200/500	mA (Adju	stable)		
Residual current off-ti	me at l∆r	1			≤0.	1 sec			
Rated operational vol	tage, Ue				AC: 22	0/460V			
Rated impulse withsta	and voltag	e, Uimp			61	κV			
Wiring system	2-pole (2	2-sensor)			1Ø	2W			
	3-pole (3	3-sensor)		1	Ø2W, 1Ø	3W, 3Ø3V	٧		
	4-pole (3	3-sensor)		1Ø2\	W, 1Ø3W,	3Ø3W, 3	Ø4W		
Rated short-circuit I	oreaking		N-1	уре	S-t	уре	H-t	уре	
capacity, Icu	AC	460V	26	ikA	37kA		50kA		
		415V	26kA		37kA		50kA		
		220/250V	65kA		85kA		100kA		
lcs=%×lcu			100% 100% 100			0%			
Protective functio	n		Overload, Short-circuit and ground fault						
Type of trip unit			Thermal-Magnetic						
Magnetic trip range	;		12×In						
Endurance	Mechan	ical			20,000 o	perations			
	Electrica	al	5,000 operations						
Connection	Standar	rd	Front connection						
	Optiona	l			Rear co	nnection			
Mounting	Standar	⁻ d			Screw	fixing			
Dimensions (mm)		Pole	2p	Зр	Зр	4p	Зр	4p	
_ d		а	105	105	105	140	105	140	
a c2 c1		b	1	65	16	35	16	35	
		c1 Note)	6	30	60		6	60	
		c2 Note)	6	64	6	4	6	4	
d		d	87		87		87		
Weight, kg		Standard	1.1 1.2		1.2	1.5	1.2	1.5	
Certification		Pole	2p	3р	Зр	4p	Зр	4p	
CE marking		(€		0))	

- 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.

Breaker types

EBN type (25kA/460V)								
Rated current, In		ual current, 30mA	Rated residual current, I △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				

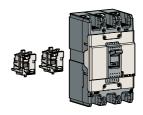
EBS type (37kA/460V)

Rated		ual current, 30mA	Rated residual current, I∆n: 100/200/500mA		
current, In	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	Rated resid	ual current, 30mA	Rated residual current, I∆n: 100/200/500mA				
current, In	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



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

Ratings





2.2.2.2	
0	
Total Control of the	
Total Control of the last of t	
The second second	
The state of the s	
Contract of the last of the la	
-	
OF REAL PROPERTY.	
A 10 10 10 10 10 10 10 10 10 10 10 10 10	
EDI 404-	

EBL404c

Frame size			400AF							
Type and pole		N-t	уре	S-ty	уре	H-t	уре	L-ty	уре	
	3-pole (3	3-sensor)	EBN4	403c	EBS4	403c	EBH	403c	EBL4	403c
	4-pole (3	B-sensor)	EBN4	404c	EBS4	404c	EBH	404c	EBL4	404c
Rated current, In			250-300-350-400A							
Rated residual curren	t, I∆n			30	0, 100/2	200/500	mA (Ad	djustabl	e)	
Residual current off-ti	me at l∆n					≤0. ⁻	1 sec			
Rated operational vol	tage, Ue					220/	460V			
Rated impulse withsta	and voltag	e, Uimp				61	κV			
Wiring system	2-pole (2	2-sensor)			1Ø2	2W, 1Ø	3W, 3Ø	i3W		
	3-pole (3	3-sensor)			1Ø2W,	1Ø3W,	3Ø3W	, 3Ø4W		
	4-pole (3	3-sensor)			1Ø2W,	1Ø3W,	3Ø3W	, 3Ø4W	'	
Rated short-circuit to	reaking		N-t	уре	S-ty	уре	H-t	уре	L-ty	уре
capacity, Icu	AC	415V/460V	37	kA	50	kA	65	kA	85	kA
		220/250V	50	kA	75	kA	85	kA	125	δkA
lcs=%×lcu			100	0%	100	0%	100%		75%	
Protective functio	n		Overload, Short-circuit and ground fault							
Type of trip unit			Thermal-Magnetic							
Magnetic trip range			8~12In							
Endurance	Mechan	ical			4	4,000 o	peration	าร		
	Electrica	al	1,000 operations							
Connection	Standar	d	Front connection							
Mounting	Standar	d				Screw	fixing			
Dimensions (mm)		Pole	Зр	4p	Зр	4p	Зр	4p	Зр	4p
		а	140	184	140	184	140	184	140	184
		b	25	57	25	57	2	57	25	57
		c1 Note)	10	9	10)9	10	09	10	09
		c2 Note)	11	13	11	13	1	13	11	13
	d		14	15	14	15	14	45	14	45
								_		
Weight, kg		Standard	7	8.4	7	8.4	1	/	7	7
Weight, kg Certification		Standard Pole	7 3p	8.4 4p	7 3p	8.4 4p	3р	/ 4p	3p	7 4p

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

Breaker types

EBN type (25kA/460V)					
Rated	Rated resid	Rated residual current, I△n: 100/200/500mA			
current, In	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	Rated resid I△n:	ual current, 30mA	Rated residual current, I △ n: 100/200/500mA			
current, In	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	Rated resid I△n:	Rated residual current, I △ n: 100/200/500mA			
current, In	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		ual current, 30mA	Rated residual current, I△n: 100/200/500mA			
current, In	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

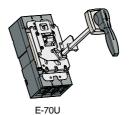
AX	Auxiliary switch
AL	Alarm switch
SHT	Shunt trip
UVT	Undervoltage trip

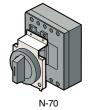


Maximum possibilities

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

Note) For more detail see 75 page





External accessories

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

Note) For more detail see 82 page

800AF ELCB EBN803c, EBS803c, EBL803c

EBS803c

Ratings

Frame size		100AF			
Type and pole			N-type	S-type	L-type
	3-pole (3	3-sensor)	EBN803c	EBS803c	EBL803c
4-pole (3-sen		3-sensor)	-	-	-
Rated current, In				500-630-700-800A	
Rated residual curren	t, I∆n		30, 10	0/200/500mA (Adjus	stable)
Residual current off-tin	me at l∆n	l		≤0.1 sec	
Rated operational volt	tage, Ue		220/460V		
Rated impulse withsta	and voltag	e, Uimp		6 kV	
Wiring system	3-pole (3	3-sensor)	1	Ø2W, 1Ø3W, 3Ø3V	V
	4-pole (3	3-sensor)		-	
Rated short-circuit b	reaking		N-type	S-type	L-type
capacity, Icu	AC	415/460V	37kA	65kA	85kA
		220/250V	50kA	85kA	125kA
lcs=%×lcu			100%	100%	75%
Protective function	n		Overload, Short-circuit and ground fault		
Type of trip unit			Thermal-Magnetic		
Magnetic trip range			8~12ln		
Endurance	Mechan	ical	2,500 operations		
	Electrica	al	500 operations		
Connection	Standar	d	Front connection		
Mounting	Standar	ď		Screw fixing	
Dimensions (mm)		Pole		Зр	
_ d		a		210	
a c2 c1		b		280	
		c1 Note)	109		
	c2 Note)		113		
		d	145		
Weight, kg		Standard		11.5	
Certification		Pole		Зр	
CE marking		(€	-		

- Drawings ▶ 120 page • Trip curves ▶ 104 page
- ▶ 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.

Breaker types

EBN type (37kA/460V)			
Rated	Rated residual current, I∆n: 30mA	Rated residual current, I△n: 100/200/500mA	
current, In	3-pole	3-pole	
500 A	EBN803c/500/30	EBN803c/500/100	
630 A	EBN803c/630/30	EBN803c/630/100	
700 A	EBN803c/700/30	EBN803c/700/100	
800 A	EBN803c/800/30	EBN803c/800/100	

EBS type (65kA/460V)			
Rated	Rated residual current, I∆n: 30mA	Rated residual current, I∆n: 100/200/500mA	
current, In	3-pole	3-pole	
500 A	EBS803c/500/30	EBS803c/500/100	
630 A	EBS803c/630/30	EBS803c/630/100	
700 A	EBS803c/700/30	EBS803c/700/100	
800 A	EBS803c/800/30	EBS803c/800/100	

EBL type (85kA/460V)			
Rated	Rated residual current, I∆n: 30mA	Rated residual current, I∆n: 100/200/500mA	
current, In	3-pole	3-pole	
500 A	EBL803c/500/30	EBL803c/500/100	
630 A	EBL803c/630/30	EBL803c/630/100	
700 A	EBL803c/700/30	EBL803c/700/100	
800 A	EBL803c/800/30	EBL803c/800/100	

Accessories





Electrical auxiliaries

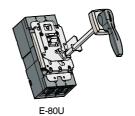
AX	Auxiliary switch
AL	Alarm switch
AX+AL	Combination switch

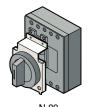


Maximum possibilities

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

Note) For more detail see 75 page





External accessories

IBL800	Insulation barrier	
T1-63A	Terminal cover (Long) - 2, 3pole	
T1-64A	Terminal cover (Long) - 4pole	
N-80	Rotary handle (Direct)	
E-80U	Rotary handle (Extended)	
MI-83S	Mechanical interlock - 2, 3pole	
MI-84S	Mechanical interlock - 4pole	

Note) For more detail see 82 page

1000/1200AF ELCB EBS1003b, EBS1203b

① Adjustable instantaneous for each phase

For more information

Drawings	▶ 121 page
Trip curves	▶ 105 page

Ratings

Frame size		1000AF	1200AF	
Type and pole			S-type	S-type
	3-pole	ole (3-sensor) EBS1003b		EBS1203b
	4-pole	(3-sensor)	-	-
Rated current, In			1000A	1200A
Rated residual curre	ent, I∆n		100/200/500m	A (Adjustable)
Residual current of	f-time at I△	\n	≤0.1	sec
Rated operational v	oltage, Ue		AC: 4	160V
	3-pole	(3-sensor)	1Ø2W, 1Ø3W, 3Ø3W	
Rated short-circui	t breaking	ı	S-Type	S-Type
capacity, Icu	AC	415/460V	851	kA
		220/250V	125kA	
Protective function			Overload, Short-circuit and ground fault	
Type of trip unit			Thermal-Magnetic	
Magnetic trip rang	ge		3~6×In①	
Endurance	Mecha	nical	2,500operations	
	Electri	cal	500operations	
Connection	Standa	ard	Front connection	
Mounting	Standa	ard	Screw	fixing
Dimensions (mm	, .	Pole	3	p
, a ,	c2 . c1	а	220	
		b	565	
		С	105	
		d	15	59
Weight, kg		Standard	27	4

Note) Rated non-trip current sensitivity is equal to or less than 50% of the rated current sensitivity.

Breaker types

EBS type (85kA/460V)		
Rated current, In	3-pole	
1000 A	EBS1003b/1,000/100	
1200 A	EBS1203b/1200/100	

Contact operation for auxiliary and alarm switches

МССВ	On	Off	Trip
АХ	AXc1 (20) (21) (30)	AXc1 - Q (21)	O—AXa1 (20) (30)
AL	ALc1 (13)	(11) (ALb1) (12)	ALc1 (11) (12)

Option of below items for T-position

AX1	Auxiliary switch (1c)	
AL1	Alarm switch (1c)	
AX1+AL1	Auxiliary (1c) + Alarm (1c) switch	





Contact rating for auxiliary and alarm switches

AC			DC		
Voltage	Current (A)		Voltage	Current (A)	
(V)	Resistive load	Inductive load	(V)	Resistive load	Inductive load
125	20	20	30	6	5
250	20	20	125	0.4	0.05
500	10	5	250	0.2	0.03