

50AF ELCB

EBN50c, EBS50c, EBH50c



EBN53c



EBS53c

Ratings

Frame size		50AF							
Type and Pole		N-Type		S-Type		H-Type			
2-pole(2-sensor)		EBN52c		-		-			
3-pole(3-sensor)		EBN53c		EBS53c		EBH53c			
4-pole(3-sensor)		-		EBS54c		EBH54c			
Rated current, I _n		15-20-30-40-50A							
Rated residual current, I _{Δn}		30, 100/200/500mA (Adjustable)							
Residual current off-time at I _{Δn}		≤0.1 sec							
Rated operational voltage, U _e		AC: 220/460V							
Rated impulse withstand voltage, U _{imp}		6kV							
Wiring system		2-pole(2-sensor)		1 Ø 2W					
		3-pole(3-sensor)		1 Ø 2W, 1 Ø 3W, 3 Ø 3W					
		4-pole(3-sensor)		1 Ø 2W, 1 Ø 3W, 3 Ø 3W, 3 Ø 4W					
Rated short-circuit breaking capacity, I_{cu}		N-Type		S-Type		H-Type			
AC 460V		14kA		18kA		50kA			
IEC 60947-2 (I _{cu})		415V		18kA		50kA			
I _{cs} =100%I _{cu}		220/250V		35kA		100kA			
Protective function		Overload, Short-circuit and Ground fault							
Type of trip unit		Thermal-Magnetic							
Magnetic trip range		12 × I _n (30A and under: 400A)							
Endurance		Mechanical		25000 operations					
		Electrical		10000 operations					
Connection		Standard		Front connection					
		Optional		Rear connection					
				Plug-in					
Mounting		Standard		Screw fixing					
Dimensions (mm)		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	1.2
Certification		Pole		2p	3p	3p	4p	3p	4p
CE marking		CE		○		○		○	

Note) Depth by door cut size : C1 for large cut, C2 for small cut

For more information

- Drawings ▶ 81 page
- Trip curves ▶ 72, 73 page
- Accessories ▶ 60 page
- Connection and mounting ▶ 89 page

Ordering types

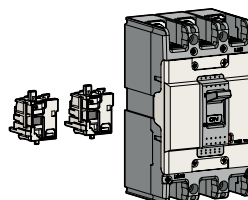
Breaker types

EBN type (14kA/460V)				
Rated current, In	Rated residual current, I Δ n: 30mA		Rated residual current, I Δ 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 Δ n: 30mA		Rated residual current, I Δ 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

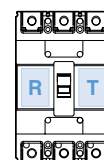
EBH type (37kA/460V)				
Rated current, In	Rated residual current, I Δ n: 30mA		Rated residual current, I Δ n: 100/200/500mA	
	3-pole	4-pole	3-pole	4-pole
15 A	EBH53c/15/30	EBH54c/15/30	EBH53c/15/100	EBH54c/15/100
20 A	EBH53c/20/30	EBH54c/20/30	EBH53c/20/100	EBH54c/20/100
30 A	EBH53c/30/30	EBH54c/30/30	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

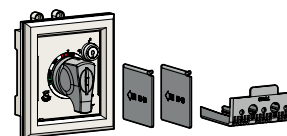
AX	Auxiliary Switch
AL	Alarm Switch
AX+AL	Combination switch



Maximum possibilities

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

Note) For more detail see 60 page



External accessories

EBN50c EBS50c	EBH50c	Name
IB13	IB23	Insulation barrier
TCL13	TCL23	Terminal cover (Long)
TCS13	TCS23	Terminal cover (Short)
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)
PB-A3	PB-C3	Plug-in kit
PHL100	PHL125	Pad handle lock

Note) For more detail see 65 page