

# 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)	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						
<b>Rated short-circuit breaking capacity, I<sub>cu</sub></b>		<b>N-Type</b>		<b>S-Type</b>		<b>H-Type</b>		
	AC <b>460V</b>	<b>14kA</b>		<b>18kA</b>		<b>50kA</b>		
	IEC 60947-2 (I <sub>cu</sub> )	415V		18kA		50kA		
	I <sub>cs</sub> =100%I <sub>cu</sub>	<b>220/250V</b>		<b>35kA</b>		<b>100kA</b>		
<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	25000 operations						
	Electrical	10000 operations						
Connection	Standard	Front connection						
	Optional	Rear connection						
		Plug-in						
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	○		○		○	

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

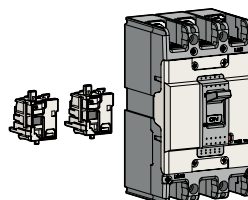
### Breaker types

EBN type (14kA/460V)				
Rated current, In	Rated residual current, I $\Delta$ 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

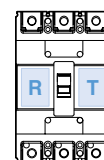
EBH type (37kA/460V)				
Rated current, In	Rated residual current, I $\Delta$ n: 30mA		Rated residual current, I $\Delta$ n: 100/200/500mA	
	3-pole	4-pole	3-pole	4-pole
15 A	EBH53c/15/30	EBH54c/15/30	EBH53c/15/100	EBH54c/15/100
20 A	EBH53c/20/30	EBH54c/20/30	EBH53c/20/100	EBH54c/20/100
30 A	EBH53c/30/30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

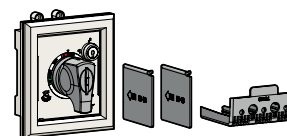
<b>AX</b>	Auxiliary Switch
<b>AL</b>	Alarm Switch
<b>AX+AL</b>	Combination switch



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 60 page



#### External accessories

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

Note) For more detail see 65 page