

Quick selection table

Earth Leakage Circuit Breakers



ELCBs

AF		30AF	50AF			60AF	
Type		S-type	N-type	S-type	H-type	N-type	S-type
Type and pole	2-pole	EBS32c	EBS32c	-	-	-	-
	3-pole	EBS33c	EBS33c	EBS53c	EBH53c	EBS63c	EBS63c
	4-pole	EBS34c	-	EBS54c	EBH54c	-	EBS64c
Protective function		Overload, Short-circuit and ground fault	Overload, Short-circuit and ground fault		Overload, Short-circuit and ground fault	Overload, Short-circuit and ground fault	
Rated current, I _n	A	(5, 10) ^{Note 1} , 15, 20, 30	15, 20, 30, 40, 50		15, 20, 30, 40, 50	60	
Rated residual current, I _{Δn}	mA	30, 100/200/500mA	30, 100/200/500mA		30, 100/200/500mA	30, 100/200/500mA	
Rated operational voltage, U _e	AC (V)	220/460	220/460		220/460	220/460	
Rated impulse withstand voltage, U _{imp}	kV	6	6		6	6	
Residual current off-time at I _{Δn}	sec	≤0.1 sec	≤0.1 sec		≤0.1 sec	≤0.1 sec	

Rated short-circuit breaking capacity (I_{cu}) kA (Sym) , IEC 60947-2

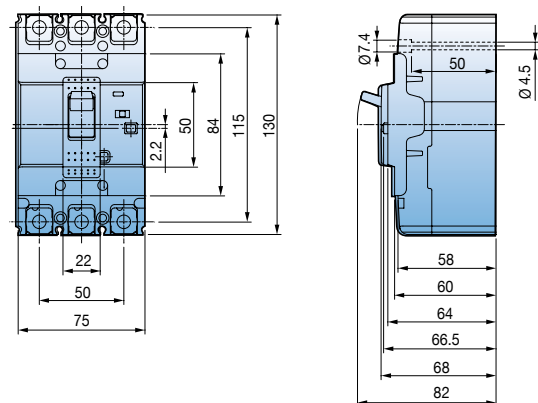
AC	415/460V	14 (10)	14	18	50	14	18
	220/250V	30 (25)	30	35	100	30	35
I _{cs} =% × I _{cu}		100	100	100	100	100	100
Dimensions (mm)	W × H × D	75 × 130 × 60mm	75 × 130 × 60mm		90 × 155 × 60mm	75 × 130 × 60mm	
	(3-pole)	(Fig 1)	(Fig 1)		(Fig 2)	(Fig. 1)	
More info.	Ratings	56 page	58 page		58 page	60 page	
	Curves	101 page	101 page		102 page	101 page	
	Drawings	116 page	116 page		117 page	116 page	

Note) 1. MCCBs can be applied to both 50 and 60Hz.

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)

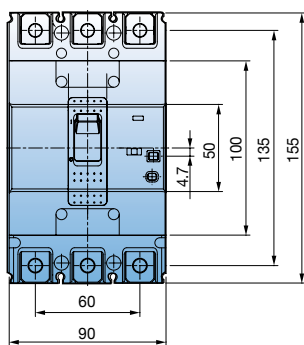
AF Type	30AF	50AF	60AF	100AF	125AF	250AF
EBS	EBS30c 14kA	EBS50c 18kA	EBS60c 18kA		EBS125c 37kA	EBS250c 37kA
EBH		EBH50c 50kA			EBH125c 50kA	EBH250c 50kA
EBS		EBS50c 14kA	EBS60c 14kA	EBS100c 18kA		EBS250c 26kA



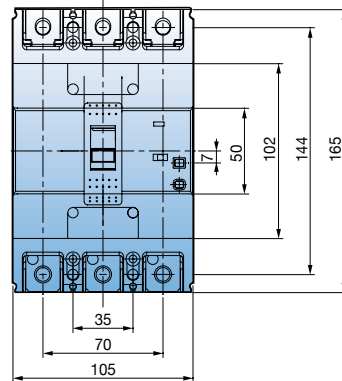
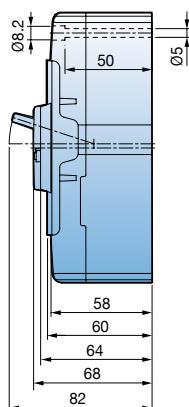
(Fig. 1)



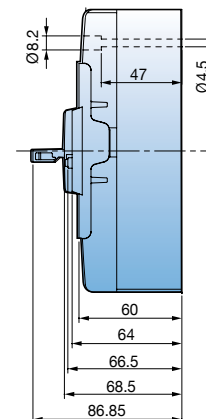
	100AF		125AF		250AF	
	N-type	S-type	H-type	N-type	S-type	H-type
	EBN102c	-	-	EBN202c	-	-
	EBN103c	EBS103c	EBH103c	EBN203c	EBS203c	EBH203c
	EBN104c	EBS104c	EBH104c	-	EBS204c	EBH204c
	Overload, Short-circuit and ground fault	Overload, Short-circuit and ground fault		Overload, Short-circuit and ground fault		
	60, 75, 100	15, 20, 30, 40, 50, 60, 75, 100, 125		100, 125, 150, 175, 200, 225, 250		
	30, 100/200/500mA	30, 100/200/500mA		30, 100/200/500mA		
	220/460	220/460		220/460		
	6	6		6		
	≤0.1 sec	≤0.1 sec		≤0.1 sec		
	18	37	50	26	37	50
	35	85	100	65	85	100
	100	100	100	100	100	100
	75 × 130 × 60mm (Fig. 1)	90 × 155 × 60mm (Fig. 2)		105 × 165 × 60mm (Fig. 3)		
	62 page	64 page		66 page		
	101 page	102 page		103 page		
	116 page	117 page		118 page		



(Fig. 2)



(Fig. 3)



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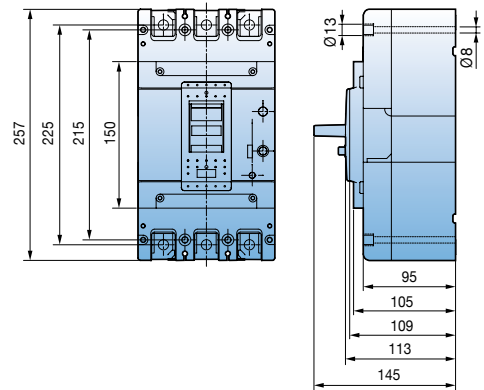


ELCBs

AF		400AF			
Type		N-type	S-type	H-type	L-type
	3-pole	EBN403c	EBS403c	EBH403c	EBL403c
	4-pole	EBN404c	EBS404c	EBH404c	EBL404c
Protective function		Overload, Short-circuit and ground fault			
Rated current, I _n	A	250, 300, 350, 400			
Rated residual current, I _{Δn}	mA	30, 100/200/500mA			
Rated operational voltage, U _e	AC (V)	220/460	220/460	220/460	220/460
Rated impulse withstand voltage, U _{imp}	kV	6	6	6	6
Residual current off-time at I _{Δn}	sec	≤0.1 sec	≤0.1 sec	≤0.1 sec	≤0.1 sec
Rated short-circuit breaking capacity (I_{cu}) kA (Sym) , IEC 60947-2					
AC	415/460V	37	50	65	85
	220/250V	50	75	85	125
I _{cs} =% × I _{cu}		100	100	100	75
Dimensions (mm)	W × H × D (3-pole)	140 × 257 × 109mm (Fig. 4)			
More info.	Ratings	68 page			
	Curves	104 page			
	Drawings	119 page			

Note) 1. MCCBs other than 1,000/1200AF can be applied to both 50 and 60Hz.
 2. Do not test withstand voltage or insulation resistance test between poles to avoid the damage of the PCB.

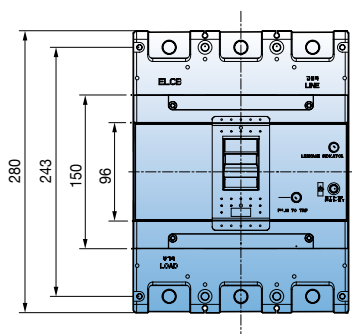
Type	AF	400AF	800AF	1000AF	1200AF
EBN		EBN400c 37kA	EBN800c 37kA		
EBS		EBS400c 50kA	EBS800c 65kA	EBS1000b 65kA	EBS1200b 65kA
EBH		EBH400c 65kA			
EBL		EBL400c 85kA	EBL800c 85kA		



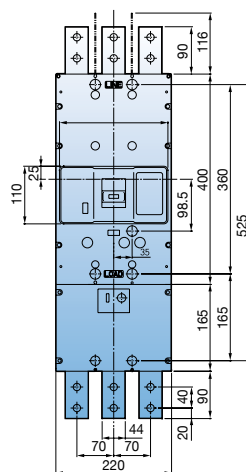
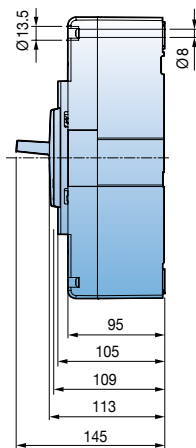
(Fig. 4)



	800AF			1000AF	1200AF
	N-type	S-type	L-type	S-type	S-type
	EBN803c	EBS803c	EBL803c	EBN1003b	EBS1203b
	-	-	-	-	-
	Overload, Short-circuit and ground fault			Overload, Short-circuit and ground fault	
	500, 630, 700, 800			1,000	1,200
	30, 100/200/500mA			100/200/500mA	100/200/500mA
	220/460	220/460	220/460	220/460	220/460
	6	6	6	-	-
	≤0.1 sec	≤0.1 sec	≤0.1 sec	≤0.1 sec	≤0.1 sec
	37	65	85	85	85
	50	85	125	125	125
	100	100	75	-	-
	210 × 280 × 109mm (Fig. 5)			220 × 565 × 105mm (Fig. 6)	
	70 page			72 page	
	104 page			105 page	
	120 page			121 page	



(Fig. 5)



(Fig. 5)

