

# Quick selection table

## Molded Case Circuit Breakers



### MCCBs

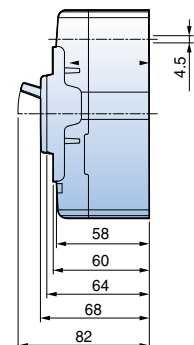
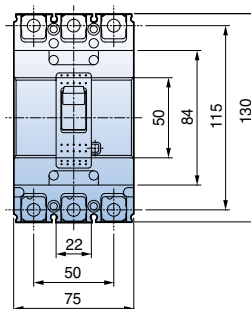
AF		30AF		50AF			60AF	
Type		E-Type	S-Type	N-Type	S-Type	H-Type	N-Type	S-Type
Type and Pole	2-pole	ABE32b	ABS32c	ABN52c	ABS52c	ABH52c	ABN62c	ABS62c
	3-pole	ABE33b	ABS33c	ABN53c	ABS53c	ABH53c	ABN63c	ABS63c
	4-pole	-	ABS34c	ABN54c	ABS54c	ABH54c	ABN64c	ABS64c
Rated current, I <sub>n</sub>	A	(3, 5, 10), 15, 20, 30		15, 20, 30, 40, 50		15, 20, 30, 40, 50	15, 20, 30, 40, 50, 60	
Rated operational voltage, U <sub>e</sub>	AC(V)	460	690	690	690	690	690	690
	DC(V)	-	500	500	500	500	500	500
Rated insulation voltage, U <sub>i</sub>	V	460	750	750	750	750	750	750
Rated impulse withstand voltage, U <sub>imp</sub>	kV	6	8	8	8	8	8	8

### Rated short-circuit breaking capacity(I<sub>cu</sub>) kA (Sym), KSC8321, IEC 60947-2

AC	690V	-	2.5	2.5	5	10	2.5	5
	480/500V	-	7.5	7.5	10	35	7.5	10
	415/460V	2.5	14 (10)	14	18	50	14	18
	380V	2.5	18 (14)	18	22	50	18	22
	220/250V	5	30 (25)	30	35	100	30	35
DC	500V(3P)	-	5	5	10	30	5	10
	250V(2P)	-	5	5	10	30	5	10
I <sub>cs</sub> =% × I <sub>cu</sub>		50	100	100	100	100	100	100
Dimensions (mm)	W × H × D	75 × 96 × 60mm	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	32 page	34 page	36 page		36 page	38 page	
	Curves	87 page	87 page	87 page		88 page	87 page	
	Drawings	92 page	93 page	93 page		94 page	93 page	

Note) 1. The short-circuit breaking capacities in ( ) are applied to the rated current in (3, 5, 10A) 2. MCCBs can be applied to both 50 and 60Hz.

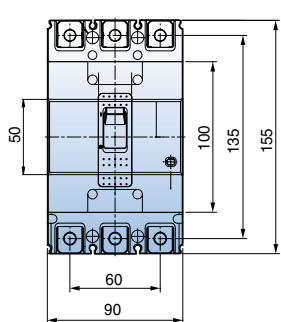
AF Type	30AF	50AF	60AF	100AF	125AF	250AF
ABN		ABN50c 14kA	ABN60c 14kA	ABN100c 18kA		ABN250c 26kA
ABS	ABS30c 14kA	ABS50c 18kA	ABS60c 18kA		ABS125c 37kA	ABS250c 37kA
ABH		ABH50c 50kA			ABH125c 50kA	ABH250c 50kA



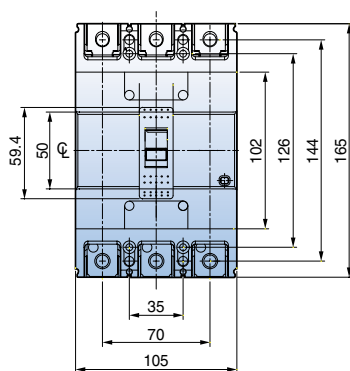
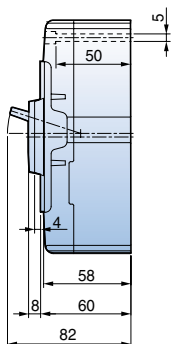
(Fig. 1)



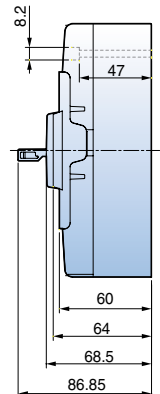
100AF		125AF			250AF		
	N-Type	S-Type	H-Type	N-Type	S-Type	H-Type	
	ABN102c	ABS102c	ABH102c	ABN202c	ABS202c	ABH202c	
	ABN103c	ABS103c	ABH103c	ABN203c	ABS203c	ABH203c	
	ABN104c	ABS104c	ABH104c	ABN204c	ABS204c	ABH204c	
	15, 20, 30, 40, 50, 60, 75, 100	15, 20, 30, 40, 50, 60, 75, 100, 125		100, 125, 150, 175, 200, 225, 250			
	690	690	690	690	690	690	
	500	500	500	500	500	500	
	750	750	750	750	750	750	
	8	8	8	8	8	8	
	5	8	10	8	8	10	
	10	26	35	18	26	35	
	18	37	50	26	37	50	
	22	42	50	30	42	50	
	35	85	100	65	85	100	
	10	20	30	10	20	30	
	10	20	30	10	20	30	
	100	100	100	100	100	100	
	75 × 130 × 60mm (Fig. 1)	90 × 155 × 60mm (Fig. 2)		105 × 165 × 60mm (Fig. 3)			
	40 page	42 page		44 page			
	87 page	88 page		89 page			
	93 page	94 page		95 page			



(Fig. 2)



(Fig. 3)



# Quick selection table

## Molded Case Circuit Breakers

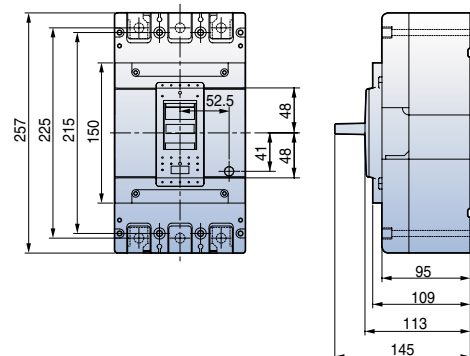


### MCCBs

AF		400AF			
Type		N-Type	S-Type	H-Type	L-Type
Type and Pole	2-pole	ABN402c	ABS402c	ABH402c	ABL402c
	3-pole	ABN403c	ABS403c	ABH403c	ABL403c
	4-pole	ABN404c	ABS404c	ABH404c	ABL404c
Rated current, I <sub>n</sub>	A	250, 300, 350, 400			
Rated operational voltage, U <sub>e</sub>	AC(V)	690	690	690	690
	DC(V)	500	500	500	500
Rated insulation voltage, U <sub>i</sub>	V	750	750	750	750
Rated impulse withstand voltage, U <sub>imp</sub>	kV	8	8	8	8
<b>Rated short-circuit breaking capacity(I<sub>cu</sub>) kA (Sym), KSC8321, IEC 60947-2</b>					
AC	690V	5	8	10	14
	480/500V	18	35	50	65
	415/460V	37	50	65	85
	380V	42	65	70	100
	220/250V	50	75	85	125
DC	500V(3P)	10	20	40	40
	250V(2P)	10	20	40	40
I <sub>cs</sub> =% × I <sub>cu</sub>		100	100	100	75
Dimensions (mm)	W × H × D	140 × 257 × 109mm			
	(3-pole)	(Fig. 4)			
More info.	Ratings	46 page			
	Curves	90 page			
	Drawings	96 page			

Note) MCCBs other than 1000/1200AF can be applied to both 50 and 60Hz.

Type	AF	400AF	800AF	1000AF	1200AF
ABN		ABN400c 37kA	ABN800c 37kA		
ABS		ABS400c 50kA	ABS800c 65kA	ABS1000b 65kA	ABS1200b 65kA
ABH		ABH400c 65kA			
ABL		ABL400c 85kA	ABL800c 85kA	ABL1000b 85kA	ABL1200b 85kA

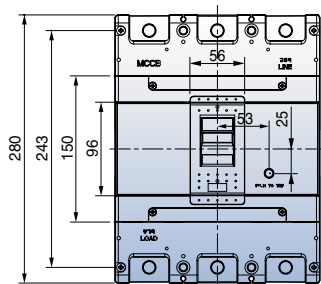


(Fig. 4)

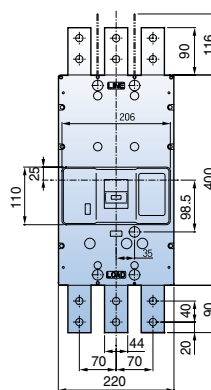
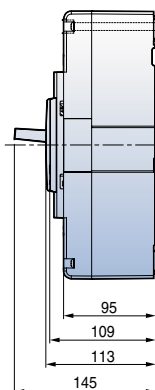


800 AF			1000 AF		1200 AF		
N-Type	S-Type	L-Type	S-Type	L-Type	S-Type		L-Type
ABN802c	ABS802c	ABL802c	-	-	-	-	-
ABN803c	ABS803c	ABL803c	ABS1003b	ABL1003b	ABS1203b	ABS1203bE	ABL1203b
ABN804c	ABS804c	ABL804c	ABS1004b	ABL1004b	ABS1204b	-	ABL1204b
500, 630, 700, 800			1000		1200		
690	690	690	600	600	600	600	600
500	500	500	-	-	-	-	-
750	750	750	690	690	690	690	690
8	8	8	6	6	6	6	6

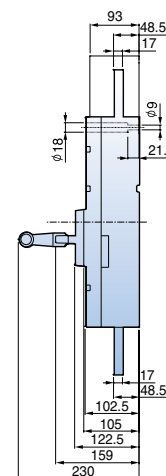
8	10	14	-	-	-	-	-
25	45	65	50	75	50	50	75
37	65	85	65	85	65	65	85
45	75	100	65	85	65	65	85
50	85	125	100	125	100	100	125
10	20	40	-	-	-	-	-
10	20	40	-	-	-	-	-
100	100	75	50	50	50	50	50
210 × 280 × 109mm (Fig. 5)			220 × 400 × 105mm (Fig. 6)		220 × 400 × 105mm (Fig. 6)		
48 page			50 page		50 page	51 page	50 page
90 page			91 page		91 page	92 page	91 page
97 page			98 page		98 page	99 page	98 page



(Fig. 5)



(Fig. 6)



# Quick selection table

## Motor protection Molded Case Circuit Breakers



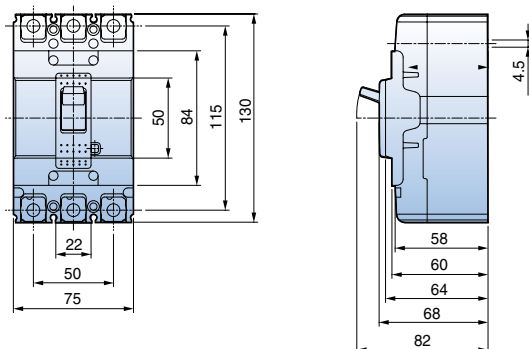
### MCCBs

AF		30AF	50AF			60AF	
Type		S-Type	N-Type	S-Type	H-Type	N-Type	S-Type
Type and Pole	3-pole	ABS33cM	ABN53cM	ABS53cM	ABH53cM	ABN63cM	ABS63cM
Rated current, In	A	16, 24	16, 24, 32, 45			60	
Rated operational voltage, Ue	AC(V)	690	690	690	690	690	690
	DC(V)	500	500	500	500	500	500
Rated insulation voltage, Ui	V	750	750	750	750	750	750
Rated impulse withstand voltage, Uimp	kV	8	8	8	8	8	8

#### Rated short-circuit breaking capacity(Icu) kA (Sym), KSC8321, IEC 60947-2

		30AF	50AF	60AF	100AF	125AF	250AF
AC	690V	2.5	2.5	5	10	2.5	5
	480/500V	7.5	7.5	10	35	7.5	10
	415/460V	14	14	18	50	14	18
	380V	18	18	22	50	18	22
	220/250V	30	30	35	100	30	35
DC	500V(3P)	5	5	10	30	5	10
Ics=% × Icu		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	38 Page	40 Page	40 Page	42 Page		
	Curves	104 Page	104 Page	105 Page	104 Page		
	Drawings	112 Page	112 Page	113 Page	112 Page		

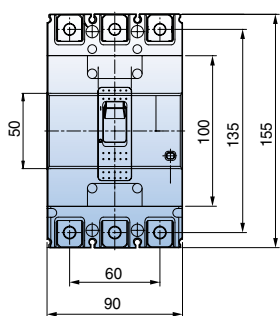
AF Type	30AF	50AF	60AF	100AF	125AF	250AF
ABN		ABN50cM 14kA	ABN60cM 14kA	ABN100cM 18kA		ABN250cM 26kA
ABS	ABS30cM 14kA	ABS50cM 18kA	ABS60cM 18kA		ABS125cM 37kA	ABS250cM 37kA
ABH		ABH50cM 50kA			ABH125cM 50kA	ABH250cM 50kA



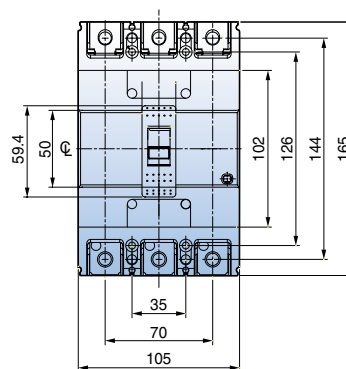
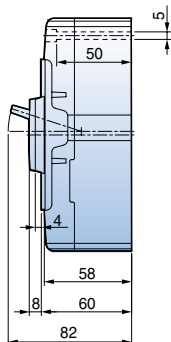
(Fig. 1)



100AF		125AF		250AF		
N-Type	S-Type	H-Type		N-Type	S-Type	H-Type
ABN103cM	ABS103cM	ABH103cM		ABN203cM	ABS203cM	ABH203cM
60, 75, 90	60, 75, 90		125, 150, 175, 225			
690	690	690	690	690	690	690
500	500	500	500	500	500	500
750	750	750	750	750	750	750
8	8	8	8	8	8	8
5	8	10	8	8	10	10
10	26	35	18	26	35	35
18	37	50	26	37	50	50
22	42	50	30	42	50	50
35	85	100	65	85	100	100
10	20	30	10	20	30	30
100	100	100	100	100	100	100
75 × 130 × 60mm (Fig. 1)	90 × 155 × 60mm (Fig. 2)		105 × 165 × 60mm (Fig. 3)			
44 Page	46 Page		48 Page			
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112 Page	113 Page		114 Page			



(Fig. 2)



(Fig. 3)

