

100AF MCCB

ABN100c

dostępne

Metasol



ABN102c

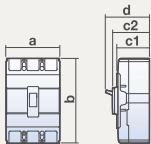


ABN103c



ABN104c

Ratings

Frame size			100AF		
Type and Pole			N-Type		
	2-pole		ABN102c		
	3-pole		ABN103c		
	4-pole		ABN104c		
Rated current, I _n		15-20-30-40-50-60-75-100A			
Rated operational voltage, U _e		AC: 690V			
		DC: 500V			
Rated insulation voltage, U _i		AC: 750V			
Rated impulse withstand voltage, U _{imp}		8kV			
Rated short-circuit breaking capacity, I _{cu}			N-Type		
AC	690V	5kA			
	480/500V	10kA			
	460V	18kA			
IEC 60947-2 (I _{cu})	415V	18kA			
	380V	22kA			
	220/250V	35kA			
I _{cs} =100%I _{cu}	500V(3P)	10kA			
	250V(2P)	10kA			
Protective function			Overload, Short-circuit		
Type of trip unit			Thermal-Magnetic		
Magnetic trip range			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	4p
	a		50	75	100
	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	3p	4p
CE marking		CE	○	○	○

Note) Depth by door cut size : c1 for large cut, c2 for small cut

For more information

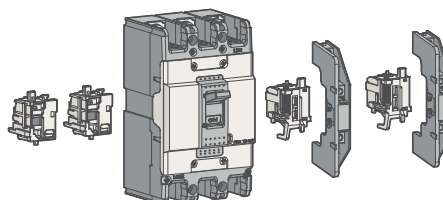
- Drawings ▶ 93 page
- Trip curves ▶ 87 page
- Accessories ▶ 72 page
- Connection and mounting ▶ 110 page

Ordering types

Breaker types

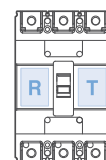
ABN type (14kA/460V)			
Rated current, In	2-pole	3-pole	4-pole
15 A	ABN102c/15	ABN103c/15	ABN104c/15
20 A	ABN102c/20	ABN103c/20	ABN104c/20
30 A	ABN102c/30	ABN103c/30	ABN104c/30
40 A	ABN102c/40	ABN103c/40	ABN104c/40
50 A	ABN102c/50	ABN103c/50	ABN104c/50
60 A	ABN102c/60	ABN103c/60	ABN104c/60
75 A	ABN102c/75	ABN103c/75	ABN104c/75
100 A	ABN102c/100	ABN103c/100	ABN104c/100

Accessories



Electrical auxiliaries

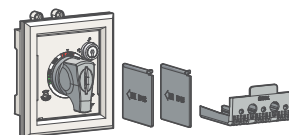
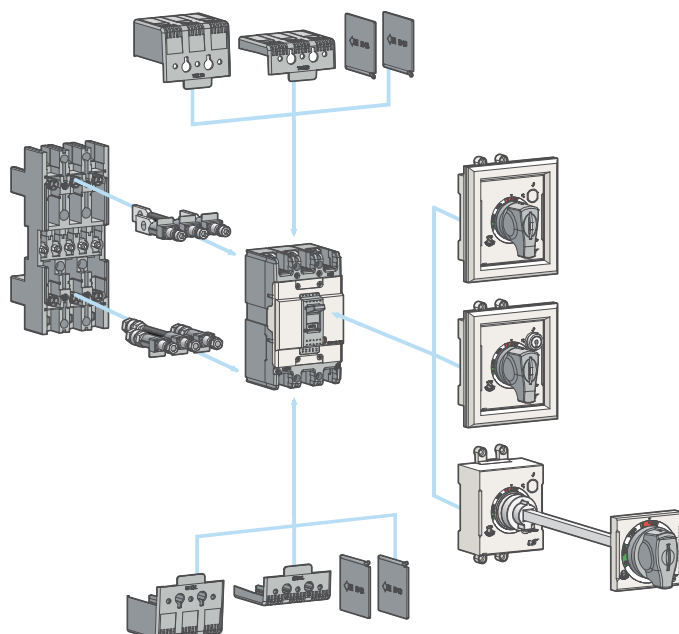
AX	Auxiliary Switch
AL	Alarm Switch
AX+AL	Combination switch
SHT	Shunt Trip
UVI	Undervoltage trip



Maximum possibilities

T-position	One of above auxiliaries
R-position	Option of AX or AL or AX+AL

Note) For more detail see 72 page



External accessories

ABN100c	Name
IB13	Insulation barrier
TCL13	Terminal cover (Long)
TCS13	Terminal cover (Short)
DH100	Rotary handle (Direct)
DHK100	Rotary handle (Direct, Key lock)
EH100	Rotary handle (Extended)
RTB1	Rear terminal (Bar)
RTR1	Rear terminal (Round)
PB-A3	Plug-in kit
PHL100	Pad handle lock

Note) For more detail see 80 page

250AF MCCB

ABN250c, ABS250c, ABH250c

Metasol



ABS202c



ABS203c

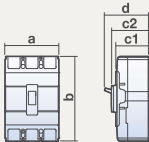


ABS204c

For more information

- Drawings ▶ 95 page
- Trip curves ▶ 89 page
- Accessories ▶ 72 page
- Connection and mounting ▶ 110 page

Ratings

Frame size			250AF								
Type and Pole			N-Type			S-Type			H-Type		
2-pole			ABN202c			ABS202c			ABH202c		
3-pole			ABN203c			ABS203c			ABH203c		
4-pole			ABN204c			ABS204c			ABH204c		
Rated current, In			100-125-150-175-200-225-250A								
Rated operational voltage, Ue			AC: 690V								
			DC: 500V								
Rated insulation voltage, Ui			AC: 750V								
Rated impulse withstand voltage, Uimp			8kV								
Rated short-circuit breaking			N-Type			S-Type			H-Type		
capacity, Icu	AC	690V	8kA			8kA			10kA		
		480/500V	18kA			26kA			35kA		
IEC 60947-2 (Icu)		460V	26kA			37kA			50kA		
Ics=100%Icu		415V	26kA			37kA			50kA		
		380V	30kA			42kA			50kA		
		220/250V	65kA			85kA			100kA		
	DC	500V(3P)	10kA			20kA			30kA		
		250V(2P)	10kA			20kA			30kA		
Protective function			Overload, Short-circuit								
Type of trip unit			Thermal-Magnetic								
Magnetic trip range			12 × In								
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	4p	2p	3p	4p	2p	3p	4p
	a		105	105	140	105	105	140	105	105	140
	b		165			165			165		
	c1 Note)		60			60			60		
	c2 Note)		64			64			64		
	d		87			87			87		
Weight, kg		Standard	1.1	1.2	1.6	1.1	1.2	1.6	1.1	1.2	1.6
Certification		Pole	2p	3p	4p	2p	3p	4p	2p	3p	4p
CE marking		CE	○			○			○		

Note) Depth by door cut size : c1 for large cut, c2 for small cut

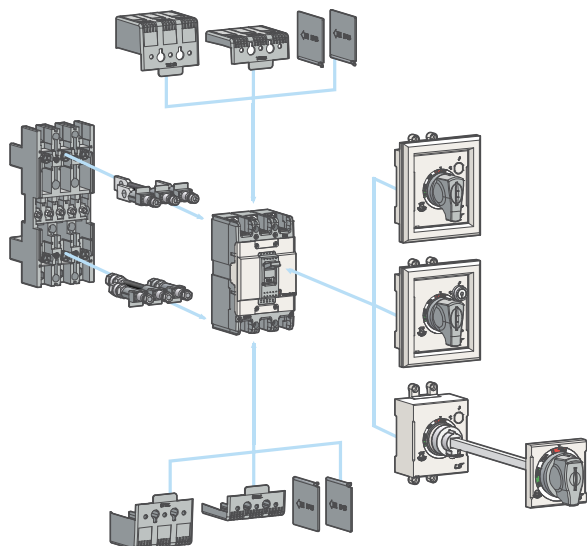
Ordering types

Breaker types

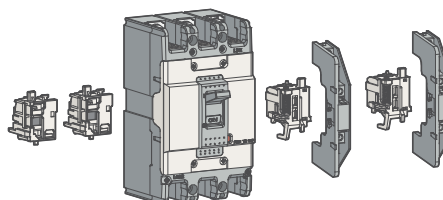
ABN type (25kA/460V)			
Rated current, In	2-pole	3-pole	4-pole
100 A	ABN202c/100	ABN203c/100	ABN204c/100
125 A	ABN202c/125	ABN203c/125	ABN204c/125
150 A	ABN202c/150	ABN203c/150	ABN204c/150
175 A	ABN202c/175	ABN203c/175	ABN204c/175
200 A	ABN202c/200	ABN203c/200	ABN204c/200
225 A	ABN202c/225	ABN203c/225	ABN204c/225
250 A	ABN202c/250	ABN203c/250	ABN204c/250

ABS type (37kA/460V)			
Rated current, In	2-pole	3-pole	4-pole
100 A	ABS202c/100	ABS203c/100	ABS204c/100
125 A	ABS202c/125	ABS203c/125	ABS204c/125
150 A	ABS202c/150	ABS203c/150	ABS204c/150
175 A	ABS202c/175	ABS203c/175	ABS204c/175
200 A	ABS202c/200	ABS203c/200	ABS204c/200
225 A	ABS202c/225	ABS203c/225	ABS204c/225
250 A	ABS202c/250	ABS203c/250	ABS204c/250

ABH type (50kA/460V)			
Rated current, In	2-pole	3-pole	4-pole
100 A	ABH202c/100	ABH203c/100	ABH204c/100
125 A	ABH202c/125	ABH203c/125	ABH204c/125
150 A	ABH202c/150	ABH203c/150	ABH204c/150
175 A	ABH202c/175	ABH203c/175	ABH204c/175
200 A	ABH202c/200	ABH203c/200	ABH204c/200
225 A	ABH202c/225	ABH203c/225	ABH204c/225
250 A	ABH202c/250	ABH203c/250	ABH204c/250

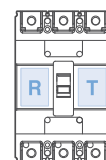


Accessories



Electrical auxiliaries

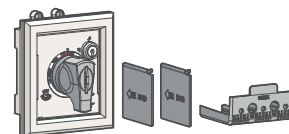
AX	Auxiliary Switch
AL	Alarm Switch
AX+AL	Combination switch
SHT	Shunt Trip
UVT	Undervoltage trip



Maximum possibilities

T-position	One of above auxiliaries
R-position	Option of AX or AL or AX+AL

Note) For more detail see 72 page



External accessories

ABH250c	Name
B33	Insulation barrier
TCL33	Terminal cover (Long)
TCS33	Terminal cover (Short)
DH250	Rotary handle (Direct)
DHK250	Rotary handle (Direct, Key lock)
EH250	Rotary handle (Extended)
RTB3	Rear terminal (Bar)
RTR3	Rear terminal (Round)
PBA250C	Plug-in kit
PHL250	Pad handle lock

Note) For more detail see 80 page

400AF MCCB

ABN400c, ABS400c, ABH400c, ABL400c

Metasol

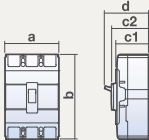


ABS403c



ABL404c

Ratings

Frame size			400AF											
Type and Pole			N-Type				S-Type			H-Type			L-Type	
	2-pole		ABN402c				ABS402c			ABH402c			ABL402c	
	3-pole		ABN403c				ABS403c			ABH403c			ABL403c	
	4-pole		ABN404c				ABS404c			ABH404c			ABL404c	
Rated current, In			250-300-350-400A											
Rated operational voltage, Ue			AC: 690V											
			DC: 500V											
Rated insulation voltage, Ui			AC: 750V											
Rated impulse withstand voltage, Uimp			8kV											
Rated short-circuit breaking capacity, Icu			N-Type				S-Type			H-Type			L-Type	
IEC 60947-2 (Icu)	AC	690V	5kA				8kA			10kA			14kA	
		480/500V	18kA				35kA			50kA			65kA	
		415/460V	37kA				50kA			65kA			85kA	
		380V	42kA				65kA			70kA			100kA	
	DC	500V(3P)	10kA				20kA			40kA			40kA	
		250V(3P)	10kA				20kA			40kA			40kA	
Ics=100%Icu		125V	100%				100%			100%			75%	
Protective function			Overload, Short-circuit											
Type of trip unit			Thermal-Magnetic											
Magnetic trip range			8~12In											
Endurance	Mechanical		4000 operations											
	Electrical		1000 operations											
Connection	Standard		Front connection											
	Optional		Rear connection											
			Plug-in											
Mounting	Standard		Screw fixing											
Dimensions (mm)		Pole	2p	3p	4p	2p	3p	4p	2p	3p	4p	2p	3p	4p
	a		140	140	184	140	140	184	140	140	184	140	140	184
	b		257			257			257			257		
	c1 Note)		109			109			109			109		
	c2 Note)		113			113			113			113		
	d		145			145			145			145		
			145			145			145			145		
Weight, kg		Standard	5.2	6.2	7.8	5.2	6.2	7.8	5.2	6.2	7.8	5.2	6.2	7.8
Certification		Pole	2p	3p	4p	2p	3p	4p	2p	3p	4p	2p	3p	4p
CE marking		CE	○			○			○			○		

Note) Depth by door cut size : c1 for large cut, c2 for small cut

For more information

- Drawings ▶ 96 page
- Trip curves ▶ 90 page
- Accessories ▶ 72 page
- Connection and mounting ▶ 111 page

Ordering types

Breaker types

ABN type (37kA/460V)			
Rated current, In	2-pole	3-pole	4-pole
250 A	ABN402c/250	ABN403c/250	ABN404c/250
300 A	ABN402c/300	ABN403c/300	ABN404c/300
350 A	ABN402c/350	ABN403c/350	ABN404c/350
400 A	ABN402c/400	ABN403c/400	ABN404c/400

ABS type (50kA/460V)			
Rated current, In	2-pole	3-pole	4-pole
250 A	ABS402c/250	ABS403c/250	ABS404c/250
300 A	ABS402c/300	ABS403c/300	ABS404c/300
350 A	ABS402c/350	ABS403c/350	ABS404c/350
400 A	ABS402c/400	ABS403c/400	ABS404c/400

ABH type(65kA/460V)			
Rated current, In	2-pole	3-pole	4-pole
250 A	ABH402c/250	ABH403c/250	ABH404c/250
300 A	ABH402c/300	ABH403c/300	ABH404c/300
350 A	ABH402c/350	ABH403c/350	ABH404c/350
400 A	ABH402c/400	ABH403c/400	ABH404c/400

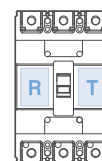
ABL type(85kA/460V)			
Rated current, In	2-pole	3-pole	4-pole
250 A	ABL402c/250	ABL403c/250	ABL404c/250
300 A	ABL402c/300	ABL403c/300	ABL404c/300
350 A	ABL402c/350	ABL403c/350	ABL404c/350
400 A	ABL402c/400	ABL403c/400	ABL404c/400

Accessories



Electrical auxiliaries

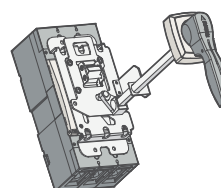
AX	Auxiliary Switch
AL	Alarm Switch
SHT	Shunt Trip
UVT	Undervoltage trip



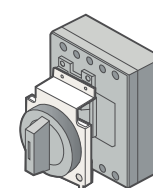
Maximum possibilities

T-position	Option of 2AX, 2AL and SHT or UVT
R-position	Option of 2AX, 2AL and SHT or UVT

Note) For more detail see 73 page



E-70U



N-70

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
X-402	Rear terminal - 2pole
X-403	Rear terminal - 3pole
X-404	Rear terminal - 4pole
PB-I3-FR	Plug-in kit

Note) For more detail see 80 page