

250AF MCCB

ABN250c, ABS250c, ABH250c, ABL250c

Metasol



ABS202c



ABS203c



ABS204c

For more information

- Drawings ▶ 111 page
- Trip curves ▶ 103 page
- Accessories ▶ 74 page
- Connection and mounting ▶ 127 page

Ratings

Frame size		250AF																																																																																									
Type and pole		N-type			S-type			H-type			L-type																																																																																
2-pole		ABN202c			ABS202c			ABH202c			ABL202c																																																																																
3-pole		ABN203c			ABS203c			ABH203c			ABL203c																																																																																
4-pole		ABN204c			ABS204c			ABH204c			ABL204c																																																																																
Rated current, In		100-125-150-175-200-225-250A																																																																																									
Rated operational voltage, Ue		AC: 690V DC: 500V																																																																																									
Rated insulation voltage, Ui		AC: 1,000V																																																																																									
Rated impulse withstand voltage, Uimp		8kV																																																																																									
Rated short-circuit breaking capacity, Icu		N-type			S-type			H-type			L-type																																																																																
AC 690V		8kA			8kA			10kA			10(10)kA																																																																																
IEC 60947-2 (Icu)		480/500V			18kA			26kA			35(35)kA																																																																																
		460V			26kA			37kA			60(50)kA																																																																																
		415V			26kA			37kA			60(50)																																																																																
		380V			30kA			42kA			60(50)																																																																																
		220/250V			65kA			85kA			125(100)kA																																																																																
DC 500V (3P)		10kA			20kA			30kA			30(30)kA																																																																																
DC 250V (2P)		10kA			20kA			30kA			30(30)kA																																																																																
Ics=%xIcu		100%			100%			100%			()																																																																																
Protective function		Overload, Short-circuit																																																																																									
Type of trip unit		Thermal-Magnetic																																																																																									
Magnetic trip range		12xIn																																																																																									
Endurance		Mechanical			25,000 operations																																																																																						
		Electrical			10,000 operations																																																																																						
Connection		Standard			Front connection																																																																																						
		Optional			Rear connection																																																																																						
		Plug-in																																																																																									
Mounting		Standard			Screw fixing																																																																																						
Dimensions (mm)		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Pole</th> <th>2p</th> <th>3p</th> <th>4p</th> <th>2p</th> <th>3p</th> <th>4p</th> <th>2p</th> <th>3p</th> <th>4p</th> <th>2p</th> <th>3p</th> <th>4p</th> </tr> </thead> <tbody> <tr> <td>a</td> <td>60</td> <td>90</td> <td>120</td> <td>690</td> <td>120</td> <td>140</td> <td>105</td> <td>105</td> <td>140</td> <td>105</td> <td>105</td> <td>140</td> </tr> <tr> <td>b</td> <td colspan="3">155</td> <td colspan="3">155</td> <td colspan="3">165</td> <td colspan="3">165</td> </tr> <tr> <td>c1 <small>Note</small></td> <td colspan="3">60</td> <td colspan="3">60</td> <td colspan="3">60</td> <td colspan="3">60</td> </tr> <tr> <td>c2 <small>Note</small></td> <td colspan="3">64</td> <td colspan="3">64</td> <td colspan="3">64</td> <td colspan="3">64</td> </tr> <tr> <td>d</td> <td colspan="3">82</td> <td colspan="3">82</td> <td colspan="3">87</td> <td colspan="3">87</td> </tr> </tbody> </table>												Pole	2p	3p	4p	2p	3p	4p	2p	3p	4p	2p	3p	4p	a	60	90	120	690	120	140	105	105	140	105	105	140	b	155			155			165			165			c1 <small>Note</small>	60			60			60			60			c2 <small>Note</small>	64			64			64			64			d	82			82			87			87		
Pole	2p	3p	4p	2p	3p	4p	2p	3p	4p	2p	3p	4p																																																																															
a	60	90	120	690	120	140	105	105	140	105	105	140																																																																															
b	155			155			165			165																																																																																	
c1 <small>Note</small>	60			60			60			60																																																																																	
c2 <small>Note</small>	64			64			64			64																																																																																	
d	82			82			87			87																																																																																	
Weight, kg		Standard			0.7	1	1.2	0.7	1	1.2	1.1	1.2	1.6	1.1	1.2	1.6																																																																											
Certification		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Pole</th> <th>2p</th> <th>3p</th> <th>4p</th> <th>2p</th> <th>3p</th> <th>4p</th> <th>2p</th> <th>3p</th> <th>4p</th> <th>2p</th> <th>3p</th> <th>4p</th> </tr> </thead> <tbody> <tr> <td>CE marking</td> <td colspan="3">☺</td> <td colspan="3">○</td> <td colspan="3">○</td> <td colspan="3">○</td> </tr> </tbody> </table>												Pole	2p	3p	4p	2p	3p	4p	2p	3p	4p	2p	3p	4p	CE marking	☺			○			○			○																																																						
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CE marking	☺			○			○			○																																																																																	

Note) 1. Depth by door cut size : c1 for large cut, c2 for small cut
 2. 4-pole product's ampacity on neutral conductor is equal to or less than 50% of the rated current.
 3. The Ics(service breaking capacity) of ABL250AF are in ()

Ordering types

Breaker types

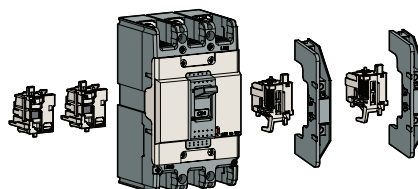
ABN type (26kA/460V)			
Rated current, In	2-pole	3-pole	4-pole
100 A	ABN202c/100	ABN203c/100	ABN204c/100
125 A	ABN202c/125	ABN203c/125	ABN204c/125
150 A	ABN202c/150	ABN203c/150	ABN204c/150
175 A	ABN202c/175	ABN203c/175	ABN204c/175
200 A	ABN202c/200	ABN203c/200	ABN204c/200
225 A	ABN202c/225	ABN203c/225	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

ABL type (60kA/460V)			
Rated current, In	2-pole	3-pole	4-pole
100 A	ABL202c/100	ABL203c/100	ABL204c/100
125 A	ABL202c/125	ABL203c/125	ABL204c/125
150 A	ABL202c/150	ABL203c/150	ABL204c/150
175 A	ABL202c/175	ABL203c/175	ABL204c/175
200 A	ABL202c/200	ABL203c/200	ABL204c/200
225 A	ABL202c/225	ABL203c/225	ABL204c/225
250 A	ABL202c/250	ABL203c/250	ABL204c/250

Accessories



Electrical auxiliaries

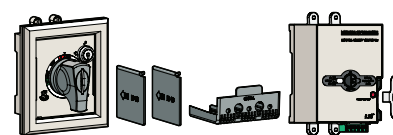
AX	Auxiliary switch
AL	Alarm switch
AX+AL	Combination switch
SHT	Shunt trip
UVT	Undervoltage trip



Maximum possibilities

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

Note) For more detail see 74 page



External accessories

ABH250c	Name
B33	Insulation barrier
TCL33	Terminal cover (Long) - Inde type, D-handle type, N-handle type
TCS33	Terminal cover (Short) - Inde type, D-handle type, N-handle type
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
Handle lock	
MOP-M3	Remote operation

Note) For more detail see 82 page

- Inde type: This cover is used without auxiliary handle.
- D-handle type: This cover is used with D-handle.
- N-handle type: This cover is used with N-handle.