

# 250AF MCCB

ABN250c, ABS250c, ABH250c, ABL250c

Metasol



ABS202c



ABS203c



ABS204c

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## Ratings

| Frame size  |            | 250AF                        |      |               |      |               |      |               |           |     |     |     |     |     |
|---|------------|------------------------------|------|---------------|------|---------------|------|---------------|-----------|-----|-----|-----|-----|-----|
| <b>Type and pole</b>                              |            | <b>N-type</b>                |      | <b>S-type</b> |      | <b>H-type</b> |      | <b>L-type</b> |           |     |     |     |     |     |
|   | 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: 1000V                    |      |               |      |               |      |               |           |     |     |     |     |     |
| Rated impulse withstand voltage, Uimp             |            | 8kV                          |      |               |      |               |      |               |           |     |     |     |     |     |
| <b>Rated short-circuit breaking capacity, Icu</b> |            | <b>N-type</b>                |      | <b>S-type</b> |      | <b>H-type</b> |      | <b>L-type</b> |           |     |     |     |     |     |
| IEC 60947-2 (Icu)                                 | AC         | 690V                         | 8kA  |               | 8kA  |               | 10kA |               | 10 (10)kA |     |     |     |     |     |
|   | 480/500V   |                              | 18kA |               | 26kA |               | 35kA |               | 35 (35)kA |     |     |     |     |     |
|   |            | 460V                         | 26kA |               | 37kA |               | 50kA |               | 60 (50)kA |     |     |     |     |     |
|   |            | 415V                         | 26kA |               | 37kA |               | 50kA |               | 60 (50)   |     |     |     |     |     |
|   |            | 380V                         | 30kA |               | 42kA |               | 50kA |               | 60 (50)   |     |     |     |     |     |
|   | 220/250V   | 65kA                         |      | 85kA          |      | 100kA         |      | 125 (100)kA   |           |     |     |     |     |     |
| DC  | 500V (3P)  | 10kA                         |      | 20kA          |      | 30kA          |      | 30 (30)kA     |           |     |     |     |     |     |
|   | 250V (2P)  | 10kA                         |      | 20kA          |      | 30kA          |      | 30 (30)kA     |           |     |     |     |     |     |
| Ics=%xIcu   |            | 100%                         |      | 100%          |      | 100%          |      | ( )           |           |     |     |     |     |     |
| <b>Protective function</b>                        |            | 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  |      |               |      |               |           |     |     |     |     |     |
| <b>Dimensions (mm)</b>                            |            | Pole                         |      | 2p            | 3p   | 4p            | 2p   | 3p            | 4p        | 2p  | 3p  | 4p  |     |     |
|   |            | a                            | 60   |               | 90   | 120           | 690  | 120           | 140       | 105 | 105 | 140 |     |     |
|   |            | b                            |      |               | 155  |               | 155  |               | 165       |     | 165 |     |     |     |
|   |            | c1 <small>Note1</small>      |      |               | 60   |               | 60   |               | 60        |     | 60  |     |     |     |
|   |            | c2 <small>Note1</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 |
| <b>Certification</b>                              |            | Pole                         | 2p   | 3p            | 4p   | 2p            | 3p   | 4p            | 2p        | 3p  | 4p  | 2p  | 3p  | 4p  |
| CE marking  |            | CE                           | ○    |               |      | ○             |      |               | ○         |     |     | ○   |     |     |

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

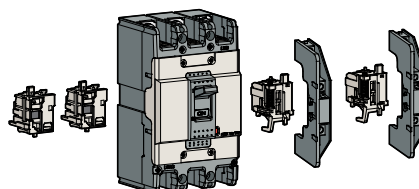
| ABN type (26kA/460V) |             |             |             |
|----------------------|-------------|-------------|-------------|
| Rated current, In    | 2-pole      | 3-pole      | 4-pole      |
| 100 A                | ABN202c/100 | ABN203c/100 | ABN204c/100 |
| 125 A                | ABN202c/125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

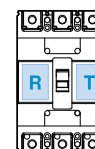
| ABL type (60kA/460V) |             |             |             |
|----------------------|-------------|-------------|-------------|
| Rated current, In    | 2-pole      | 3-pole      | 4-pole      |
| 100 A                | ABL202c/100 | ABL203c/100 | ABL204c/100 |
| 125 A                | ABL202c/125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

|              |                    |
|--------------|--------------------|
| <b>AX</b>    | Auxiliary switch   |
| <b>AL</b>    | Alarm switch       |
| <b>AX+AL</b> | Combination switch |
| <b>SHT</b>   | Shunt trip         |
| <b>UVT</b>   | Undervoltage trip  |

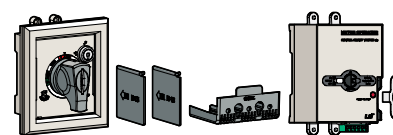


#### Maximum possibilities

|                   |                             |
|-------------------|-----------------------------|
| <b>T-position</b> | One of above auxiliaries    |
| <b>R-position</b> | Option of AX or AL or AX+AL |

Note) For more detail see 7-1 page

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#### External accessories

| ABH250c            | Name  |
|--------------------|---|
| <b>B33</b>         | Insulation barrier  |
| <b>TCL33</b>       | Terminal cover (Long)<br>- Inde type, D-handle type, N-handle type  |
| <b>TCS33</b>       | Terminal cover (Short)<br>- Inde type, D-handle type, N-handle type |
| <b>DH250</b>       | Rotary handle (Direct)  |
| <b>DHK250</b>      | Rotary handle (Direct, key lock)                                    |
| <b>EH250</b>       | Rotary handle (Extended)  |
| <b>RTB3</b>        | Rear terminal (Bar)   |
| <b>RTR3</b>        | Rear terminal (Round)   |
| <b>PBA250C</b>     | Plug-in kit   |
| <b>Handle lock</b> |   |
| <b>MOP-M3</b>      | Remote operation  |

Note) For more detail see 7-9 - 7-26 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.