

# 100AF MCCB (ABN100c/ABN100d/ABN100e)

## 제품의 정격 및 사양



ABN102c



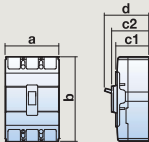
ABN103c



ABN104c

### 기타 자료

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| 프레임의 크기                                                                             |                   |           | 100AF                                                                               |      |           |     |           |     |         |    |    |    |
|-------------------------------------------------------------------------------------|-------------------|-----------|-------------------------------------------------------------------------------------|------|-----------|-----|-----------|-----|---------|----|----|----|
| 형명 및 극수                                                                             |                   |           | N-type                                                                              |      |           |     |           |     |         |    |    |    |
|                                                                                     |                   |           | 2극 (2P2E)                                                                           |      | ABN102c   |     | ABN102d   |     | ABN102e |    |    |    |
|                                                                                     |                   |           | 3극 (3P3E)                                                                           |      | ABN103c   |     | ABN103d   |     | ABN103e |    |    |    |
|                                                                                     |                   |           | 4극 (4P3E)                                                                           |      | ABN104c   |     | ABN104d   |     | ABN104e |    |    |    |
| 정격전류, In                                                                            |                   |           | 15, (16), 20, (25), 30, (32), 40, 50, 60, (63), 75, (80), 100A <sup>주6)</sup>       |      |           |     |           |     |         |    |    |    |
| 정격전압, Ue                                                                            |                   |           | AC : 690V                                                                           |      |           |     |           |     |         |    |    |    |
|                                                                                     |                   |           | DC : 500V                                                                           |      |           |     |           |     |         |    |    |    |
| 정격절연전압, Ui                                                                          |                   |           | AC : 1000V                                                                          |      |           |     |           |     |         |    |    |    |
| 정격임펄스전압, Uimp                                                                       |                   |           | 8kV                                                                                 |      |           |     |           |     |         |    |    |    |
| 정격차단전류, Icu                                                                         |                   |           | N-type                                                                              |      |           |     |           |     |         |    |    |    |
| KSC 8321 (Sym)<br>IEC 60947-2 (Icu)                                                 | AC                | 690V      | 5kA                                                                                 |      | 7.5 (5)kA |     | 7.5 (5)kA |     |         |    |    |    |
|                                                                                     |                   | 480/500V  | 10kA                                                                                |      | 14 (10)kA |     | 14 (10)kA |     |         |    |    |    |
|                                                                                     |                   | 460V      | 18kA                                                                                |      | 26 (18)kA |     | 31 (18)kA |     |         |    |    |    |
|                                                                                     |                   | 415V      | 18kA                                                                                |      | 26 (18)kA |     | 31 (18)kA |     |         |    |    |    |
|                                                                                     |                   | 380V      | 22kA                                                                                |      | 30 (22)kA |     | 31 (22)kA |     |         |    |    |    |
|                                                                                     |                   | 220/250V  | 35kA                                                                                |      | 50 (35)kA |     | 65 (35)kA |     |         |    |    |    |
|                                                                                     | DC                | 500V (3극) | 10kA                                                                                |      | 15 (10)kA |     | 15 (10)kA |     |         |    |    |    |
|                                                                                     |                   | 250V (2극) | 10kA                                                                                |      | 15 (10)kA |     | 15 (10)kA |     |         |    |    |    |
|                                                                                     | Ics=%×Icu         |           |                                                                                     | 100% |           | ( ) |           | ( ) |         |    |    |    |
| 보호기능                                                                                |                   |           | 과부하, 순시 및 단락전류                                                                      |      |           |     |           |     |         |    |    |    |
| 과전류트리핑방식                                                                            |                   |           | 열동전자식 (Thermal-magnetic, TM)                                                        |      |           |     |           |     |         |    |    |    |
| 순시트리핑동작특성                                                                           |                   |           | 12×In (30 A 이하 : 400 A)                                                             |      |           |     |           |     |         |    |    |    |
| 한계수명<br>(Life cycle) <sup>주7)</sup>                                                 | 기계적               |           | 25,000회                                                                             |      |           |     |           |     |         |    |    |    |
|                                                                                     | 전기적               |           | 10,000회                                                                             |      |           |     |           |     |         |    |    |    |
| 접속방식                                                                                | 표준                |           | 표면형 (Front Connection)                                                              |      |           |     |           |     |         |    |    |    |
|                                                                                     | 선택                |           | 이면형 (Rear Connection)                                                               |      |           |     |           |     |         |    |    |    |
|                                                                                     |                   |           | 꽃음접속식 (Plug-in)                                                                     |      |           |     |           |     |         |    |    |    |
| 설치방식                                                                                |                   |           | 표준                                                                                  |      | 나사취부      |     |           |     |         |    |    |    |
| 외형치수 (mm)                                                                           |                   |           | 극수                                                                                  | 2극   |           | 3극  |           | 4극  |         |    |    |    |
|  | a                 |           | 50                                                                                  |      | 75        |     | 100       |     |         |    |    |    |
|                                                                                     | b                 |           | 130                                                                                 |      | 130       |     | 130       |     |         |    |    |    |
|                                                                                     | c1 <sup>주2)</sup> |           | 60                                                                                  |      | 60        |     | 60        |     |         |    |    |    |
|                                                                                     | c2 <sup>주2)</sup> |           | 64                                                                                  |      | 64        |     | 64        |     |         |    |    |    |
|                                                                                     | d                 |           | 82                                                                                  |      | 82        |     | 82        |     |         |    |    |    |
|                                                                                     |                   |           |                                                                                     |      |           |     |           |     |         |    |    |    |
| 제품중량, kg                                                                            |                   |           | 표준                                                                                  | 0.5  |           | 0.7 |           | 0.9 |         |    |    |    |
| 취득규격                                                                                |                   |           | 극수                                                                                  | 2극   | 3극        | 4극  | 2극        | 3극  | 4극      | 2극 | 3극 | 4극 |
| 전기용품안전관리법                                                                           |                   |           |  | ○    |           |     | ○         |     |         | ○  |    |    |
| CE 마크                                                                               |                   |           |  | ○    |           |     | ○         |     |         | ○  |    |    |

주) 1. 정격차단전류중 안전인증 (형식승인) 취득정격은 빨간색 글씨부분이고 나머지 전압의 차단전류는 참고 정격임.

2. c1: 명판 노출 방법, c2: 핸들 노출 방법

3. ABN100d Type의 경우 I<sub>cs</sub>=18kA임.

4. 4극형 제품의 경우 N상의 통전전류는 정격전류의 최대 50%임.

5. ABN100e Type의 경우 I<sub>cs</sub>= ( )안의 kA임

6. 100AF의 정격전류 중 ( )는 ABN100c/ABN100d 제품만 해당합니다.

7. 한계수명은 보증 회수가 아닙니다.

(품질 보증: 보증 기간 내 IEC60947-2에 정의된 개폐 회수를 보증합니다.)

## 선정 및 주문

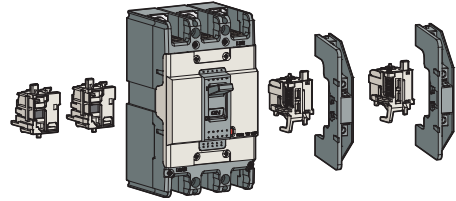
### 차단기본체 주문형명

| ABN-c Type (18kA/460V) |             |             |             |
|------------------------|-------------|-------------|-------------|
| 정격전류, In               | 2극          | 3극          | 4극          |
| 15 A                   | ABN102c/15  | ABN103c/15  | ABN104c/15  |
| 16 A                   | ABN102c/16  | ABN103c/16  | ABN104c/16  |
| 20 A                   | ABN102c/20  | ABN103c/20  | ABN104c/20  |
| 25 A                   | ABN102c/25  | ABN103c/25  | ABN104c/25  |
| 30 A                   | ABN102c/30  | ABN103c/30  | ABN104c/30  |
| 32 A                   | ABN102c/32  | ABN103c/32  | ABN104c/32  |
| 40 A                   | ABN102c/40  | ABN103c/40  | ABN104c/40  |
| 50 A                   | ABN102c/50  | ABN103c/50  | ABN104c/50  |
| 60 A                   | ABN102c/60  | ABN103c/60  | ABN104c/60  |
| 63 A                   | ABN102c/63  | ABN103c/63  | ABN104c/63  |
| 75 A                   | ABN102c/75  | ABN103c/75  | ABN104c/75  |
| 80 A                   | ABN102c/80  | ABN103c/80  | ABN104c/80  |
| 100 A                  | ABN102c/100 | ABN103c/100 | ABN104c/100 |

| ABN-d Type (26kA/460V) |             |             |             |
|------------------------|-------------|-------------|-------------|
| 정격전류, In               | 2극          | 3극          | 4극          |
| 15 A                   | ABN102d/15  | ABN103d/15  | ABN104d/15  |
| 16 A                   | ABN102d/16  | ABN103d/16  | ABN104d/16  |
| 20 A                   | ABN102d/20  | ABN103d/20  | ABN104d/20  |
| 25 A                   | ABN102d/25  | ABN103d/25  | ABN104d/25  |
| 30 A                   | ABN102d/30  | ABN103d/30  | ABN104d/30  |
| 32 A                   | ABN102d/32  | ABN103d/32  | ABN104d/32  |
| 40 A                   | ABN102d/40  | ABN103d/40  | ABN104d/40  |
| 50 A                   | ABN102d/50  | ABN103d/50  | ABN104d/50  |
| 60 A                   | ABN102d/60  | ABN103d/60  | ABN104d/60  |
| 63 A                   | ABN102d/63  | ABN103d/63  | ABN104d/63  |
| 75 A                   | ABN102d/75  | ABN103d/75  | ABN104d/75  |
| 80 A                   | ABN102d/80  | ABN103d/80  | ABN104d/80  |
| 100 A                  | ABN102d/100 | ABN103d/100 | ABN104d/100 |

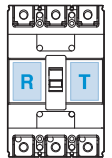
| ABN-e Type (31kA/460V) |             |             |             |
|------------------------|-------------|-------------|-------------|
| 정격전류, In               | 2극          | 3극          | 4극          |
| 15 A                   | ABN102e/15  | ABN103e/15  | ABN104e/15  |
| 20 A                   | ABN102e/20  | ABN103e/20  | ABN104e/20  |
| 30 A                   | ABN102e/30  | ABN103e/30  | ABN104e/30  |
| 40 A                   | ABN102e/40  | ABN103e/40  | ABN104e/40  |
| 50 A                   | ABN102e/50  | ABN103e/50  | ABN104e/50  |
| 60 A                   | ABN102e/60  | ABN103e/60  | ABN104e/60  |
| 75 A                   | ABN102e/75  | ABN103e/75  | ABN104e/75  |
| 100 A                  | ABN102e/100 | ABN103e/100 | ABN104e/100 |

### 부속장치 (Accessory)



내부부속장치류

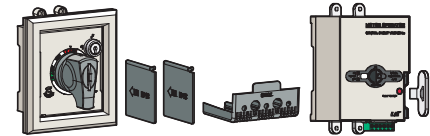
|       |          |
|-------|----------|
| AX    | 보조스위치    |
| AL    | 경보스위치    |
| AX+AL | 조합스위치    |
| SHT   | 전압트립장치   |
| UVT   | 부족전압트립장치 |



설치 가능 조합

|         |                      |
|---------|----------------------|
| T상 (좌극) | 위 부속장치 가운데 1종        |
| R상 (좌극) | AX, AL, AX+AL 가운데 1종 |

주) 상세정격 7-1쪽



외부부속장치류

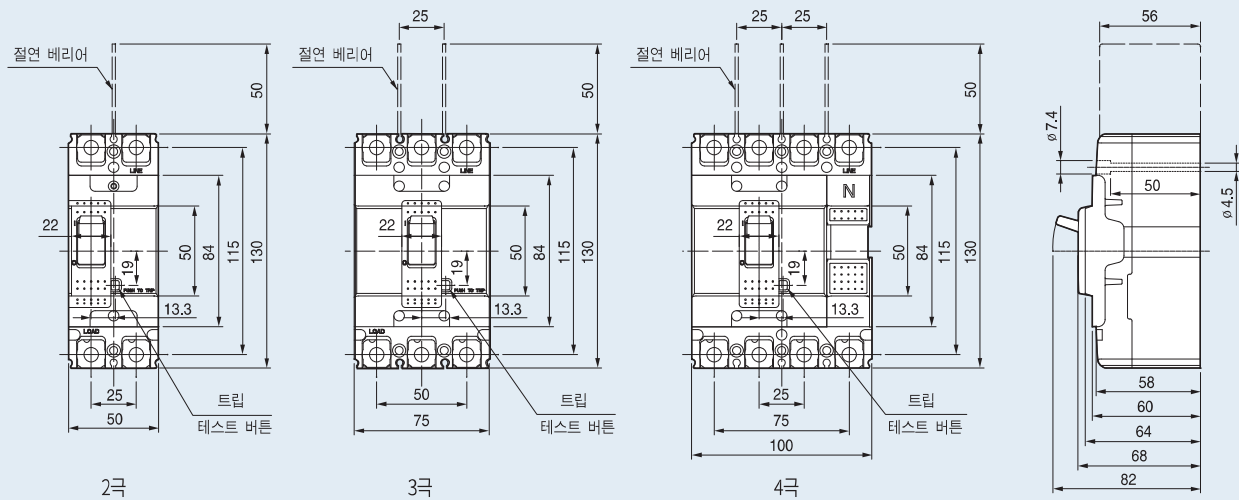
| ABN100c     | 부속장치명                                               |
|-------------|-----------------------------------------------------|
| IB13        | 절연배리어 (전원측은 기본제공)                                   |
| TCL13       | 단자커버 (Long Type)<br>- 단독형, D-handle용, N-handle용 구분  |
| TCS13       | 단자커버 (Short Type)<br>- 단독형, D-handle용, N-handle용 구분 |
| N-30c       | 외부조작핸들 (직결형)<br>- 2, 3극 공용                          |
| DH100       | 외부조작핸들 (직결형)                                        |
| DHK100      | 외부조작핸들 (직결형, 키록부착)                                  |
| EH100       | 외부조작핸들 (확장형)                                        |
| RTB1        | 이면형단자 (Bar Type)                                    |
| RTR1        | 이면형단자 (Round Type)                                  |
| PB-A3       | Plug-in Kit                                         |
| Handle Lock | 핸들잠금장치                                              |
| MOP-M1      | 전동개폐장치                                              |

주) 3극 기준, 상세사양 7-9쪽 ~ 7-27쪽

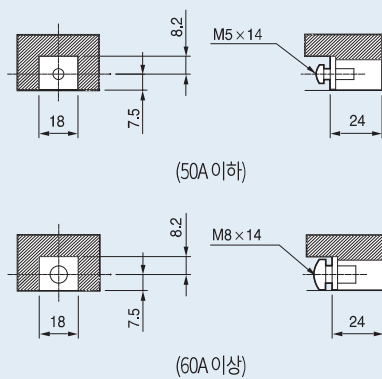
# MCCB

|                   |        |
|-------------------|--------|
| ABN50c            | ABS30c |
| ABN60c            | ABS50c |
| ABN100c/100d/100e | ABS60c |

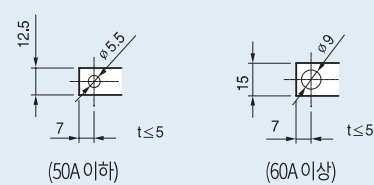
(단위 : mm)



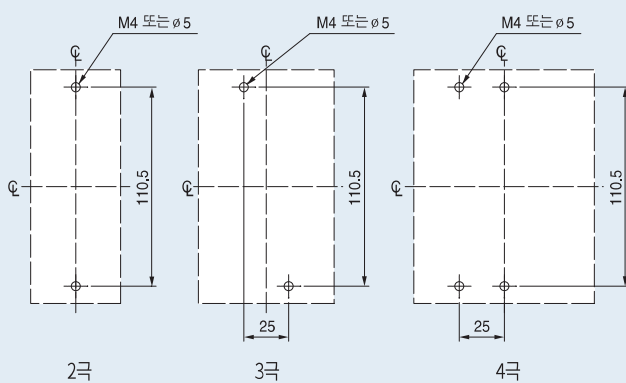
단자부 상세도



접속도체 가공도



패널설치치수



패널커버절단치수

