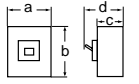


# Earth Leakage Circuit Breakers

## G-TWIN series

### Quick reference guide

#### ■ G-TWIN Standard Series

| Ampere frame                            |   | 32A                |                       |                       |                            |                          |       |
|---|---|--------------------|-----------------------|-----------------------|----------------------------|--------------------------|-------|
| Type                                    |   | EW32AAG            |                       | EW32EAG               | EW32SAG                    |                          |       |
| Pole                                    |   | 2                  | 3                     | 3                     | 3                          |                          |       |
| Rated current                           | Reference amb. temp. (40°C)   | In(A)              | 5, 10, 15, 20, 30, 32 | 5, 10, 15, 20, 30, 32 | 5, 10, 15, 20, 30, 32      | 3, 5, 10, 15, 20, 30, 32 |       |
| Rated impulse withstand voltage         |   | Uimp(kV)           | 2.5                   | 4                     | 4                          | 4                        |       |
| Isolation compliant                     |   | ●                  | ●                     | ●                     | ●                          |                          |       |
| Rated voltage Ue (AC V)                 |   | 100-230            | 100-230               | 100-230-440           | 100-230-440                |                          |       |
| Rated sensitive current (mA)            |   | 15, 30, 100        | 15, 30, 100           | 15, 30, 100           | 30, 100/200/500 changeover |                          |       |
| Tripping time (s)                       |   | 0.1 or less        | 0.1 or less           | 0.1 or less           | 0.1 or less                |                          |       |
| Rated breaking capacity<br>Icu/Ics (kA) | IEC 60947-2<br>EN 60947-2<br>JIS C 8201-2-2   | AC                 | 440V                  | –                     | –                          | 1.5/1                    | 2.5/2 |
|   |   |                    | 415V                  | –                     | –                          | 1.5/1                    | 2.5/2 |
|   |   |                    | 400V                  | –                     | –                          | 1.5/1                    | 2.5/2 |
|   |   |                    | 380V                  | –                     | –                          | 1.5/1                    | 2.5/2 |
|   |   |                    | 230V                  | 2.5/2                 | 2.5/2                      | 2.5/2                    | 5/3   |
|   |   |                    | 200V                  | 2.5/2                 | 2.5/2                      | 2.5/2                    | 5/3   |
|   |   |                    | 100V                  | 2.5/2                 | 5/3                        | 5/3                      | 5/3   |
|   | GB14048.2   | AC                 | 400V                  | –                     | –                          | 1.5/1                    | 2.5/2 |
| 230V                                    | 2.5/2   | 2.5/2              | 2.5/2                 | 5/3                   |                            |                          |       |
| Conforming to standards                 | CE Marking  |                    | ● (TÜV)               | ● (TÜV)               | ● (TÜV)                    | ● (TÜV)                  |       |
|   | CCC certificate   |                    | ●                     | ●                     | ●                          | ●                        |       |
|   | Electrical Appliance and Material Safety Law *1                                     |                    | ●                     | ●                     | ●                          | ●                        |       |
| Dimensions (mm)                         |  |                    | a                     | 50                    | 75                         | 75                       | 75    |
|   |   |                    | b                     | 100                   |                            | 100                      | 100   |
|   |   |                    | c                     | 60                    |                            | 60                       | 60    |
|   |   |                    | d                     | 84                    |                            | 84                       | 84    |
| Mass (kg)                               |   | 0.4                | 0.5                   | 0.5                   | 0.6                        |                          |       |
| Tripping device                         |   | Hydraulic-magnetic |                       |                       |                            |                          |       |
| Front mounting, front connection        |   | No-mark            | ○                     | ○                     | ○                          | ○                        |       |
| Front mounting, rear connection         |   | X                  | ○                     | ○                     | ○                          | ○                        |       |
| Flush mounting, front connection        |   | E                  | ○                     | ○                     | ○                          | ○                        |       |
| Flush mounting, top & bottom connection |   | Y                  | ○                     | ○                     | ○                          | ○                        |       |
| Plug-in mounting                        |   | P                  | ○                     | ○                     | ○                          | ○                        |       |
| IEC 35mm wide rail mounting             |   | No-mark            | ○                     | ○                     | ○                          | ○                        |       |
| Internal accessories                    |   | Page 07/57         |                       |                       |                            |                          |       |
| Alarm switch                            |   | K                  | ○                     | ○                     | ○                          | ○                        |       |
| Auxiliary switch                        |   | W                  | ○                     | ○                     | ○                          | ○                        |       |
| Undervoltage trip                       |   | R                  | ○                     | ○                     | ○                          | ○                        |       |
| Shunt trip                              |   | F                  | ○                     | ○                     | ○                          | ○                        |       |
| Earth alarm switch                      |   | L                  | –                     | –                     | –                          | –                        |       |
| External accessories                    |   | Page 07/60         |                       |                       |                            |                          |       |
| Handle padlocking device Cap type       |   | QN                 | ○                     | ○                     | ○                          | ○                        |       |
| Handle padlocking device Plate type     |   | Q2                 | ▲                     | ▲                     | ▲                          | ▲                        |       |
| Operating handle N-type                 |   | N                  | ○                     | ○                     | ○                          | ○                        |       |
| Operating handle V-type                 |   | V                  | ○                     | ○                     | ○                          | ○                        |       |
| Terminal cover Short                    |   | BT□S               | ○                     | ○                     | ○                          | ○                        |       |
| Terminal cover Long                     |   | BT□L               | ○                     | ○                     | ○                          | ○                        |       |
| Insulation barrier Interphase           |   | BP                 | ○                     | ○                     | ○                          | ○                        |       |
| Earth                                   |   | BL                 | ○                     | ○                     | ○                          | ○                        |       |
| Handle locking cover                    |   | L1                 | ○                     | ○                     | ○                          | ○                        |       |
| Flat terminal                           |   | SS                 | ○                     | ○                     | ○                          | ○                        |       |
| Block terminal                          |   | SL                 | –                     | –                     | –                          | –                        |       |

●: Approved ○: Available –: Not available ▲: Factory-mounted accessory  
 Note: \*1 Electrical Appliance and Material Safety Law of Japan

| Rated voltage (V) | Operational voltage range (V) |
|-------------------|-------------------------------|
| 100–230           | 80–264                        |
| 100–230–440       | 80–484                        |

# Earth Leakage Circuit Breakers

## G-TWIN series

### Quick reference guide

#### ■ G-TWIN Standard Series

| Ampere frame                            |   |       | 50A   |       |                               |         |                               |       |  |
|---|---|-------|---|-------|-------------------------------|---------|-------------------------------|-------|--|
| Type                                    |   |       | EW50AAG   |       | EW50EAG                       | EW50SAG | EW50RAG                       |       |  |
| Pole                                    |   |       | 2   | 3     | 3                             | 3       | 3                             |       |  |
| Rated current                           | Reference amb. temp. (40°C)                 | In(A) | 5, 10, 15, 20, 30, 32, 40, 50                   |       | 5, 10, 15, 20, 30, 32, 40, 50 |         | 5, 10, 15, 20, 30, 32, 40, 50 |       |  |
| Rated impulse withstand voltage         |   |       | Uimp(kV)  |       | 2.5                           | 4       | 6                             | 6     |  |
| Isolation compliant                     |   |       | ●   |       | ●                             | ●       | ●                             |       |  |
| Rated voltage Ue (AC V)                 |   |       | 100-230   |       | 100-230-440                   |         | 100-230-440                   |       |  |
| Rated sensitive current (mA)            |   |       | 15, 30, 100                                     |       | 15, 30, 100/200 changeover    |         | 30, 100/200/500 changeover    |       |  |
| Tripping time (s)                       |   |       | 0.1 or less                                     |       | 0.1 or less                   |         | 0.1 or less                   |       |  |
| Rated breaking capacity Icu/Ics (kA)    | IEC 60947-2<br>EN 60947-2<br>JIS C 8201-2-2 | AC    | 440V  | -     |                               | 2.5/2   |                               | 7.5/4 |  |
|   |   |       | 415V  | -     |                               | 2.5/2   |                               | 7.5/4 |  |
|   |   |       | 400V  | -     |                               | 2.5/2   |                               | 7.5/4 |  |
|   |   |       | 380V  | -     |                               | 2.5/2   |                               | 7.5/4 |  |
|   |   |       | 230V  | 2.5/2 |                               | 5/3     |                               | 10/5  |  |
|   |   |       | 200V  | 2.5/2 |                               | 5/3     |                               | 10/5  |  |
|   |   |       | 100V  | 2.5/2 |                               | 5/3     |                               | 10/5  |  |
|   | GB14048.2                                   | AC    | 400V  | -     |                               | 2.5/2   |                               | 7.5/4 |  |
|   |   |       | 230V  | 2.5/2 |                               | 5/3     |                               | 10/5  |  |
| Conforming to standards                 |   |       | CE Marking                                      |       | ● (TÜV)                       |         | ● (TÜV)                       |       |  |
|   |   |       | CCC certificate                                 |       | ●                             |         | ●                             |       |  |
|   |   |       | Electrical Appliance and Material Safety Law *1 |       | ●                             |         | ●                             |       |  |
| Dimensions (mm)                         |   |       |   | a     | 50                            | 75      | 75                            | 75    |  |
|   |   |       |   | b     | 100                           |         | 100                           |       |  |
|   |   |       |   | c     | 60                            |         | 60                            |       |  |
|   |   |       |   | d     | 84                            |         | 84                            |       |  |
| Mass (kg)                               |   |       | 0.4   | 0.6   | 0.6                           | 0.6     | 0.6                           |       |  |
| Tripping device                         |   |       | Hydraulic-magnetic                              |       |                               |         |                               |       |  |
| Front mounting, front connection        |   |       | No-mark   | ○     | ○                             | ○       | ○                             |       |  |
| Front mounting, rear connection         |   |       | X   | ○     | ○                             | ○       | ○                             |       |  |
| Flush mounting, front connection        |   |       | E   | ○     | ○                             | ○       | ○                             |       |  |
| Flush mounting, top & bottom connection |   |       | Y   | ○     | ○                             | ○       | ○                             |       |  |
| Plug-in mounting                        |   |       | P   | ○     | ○                             | ○       | ○                             |       |  |
| IEC 35mm wide rail mounting             |   |       | No-mark   | ○     | ○                             | ○       | ○                             |       |  |
| Internal accessories                    |   |       | Page 07/57                                      |       |                               |         |                               |       |  |
| Alarm switch                            |   |       | K   | ○     | ○                             | ○       | ○                             |       |  |
| Auxiliary switch                        |   |       | W   | ○     | ○                             | ○       | ○                             |       |  |
| Undervoltage trip                       |   |       | R   | ○     | ○                             | ○       | ○                             |       |  |
| Shunt trip                              |   |       | F   | ○     | ○                             | ○       | ○                             |       |  |
| Earth alarm switch                      |   |       | L   | -     | -                             | -       | -                             |       |  |
| External accessories                    |   |       | Page 07/60                                      |       |                               |         |                               |       |  |
| Handle padlocking device Cap type       |   |       | QN  | ○     | ○                             | ○       | ○                             |       |  |
| Handle padlocking device Plate type     |   |       | Q2  | ▲     | ▲                             | ▲       | ▲                             |       |  |
| Operating handle N-type                 |   |       | N   | ○     | ○                             | ○       | ○                             |       |  |
| Operating handle V-type                 |   |       | V   | ○     | ○                             | ○       | ○                             |       |  |
| Terminal cover Short                    |   |       | BT□S  | ○     | ○                             | ○       | ○                             |       |  |
| Terminal cover Long                     |   |       | BT□L  | ○     | ○                             | ○       | ○                             |       |  |
| Insulation barrier Interphase           |   |       | BP  | ○     | ○                             | ○       | ○                             |       |  |
| Insulation barrier Earth                |   |       | BL  | ○     | ○                             | ○       | ○                             |       |  |
| Handle locking cover                    |   |       | L1  | ○     | ○                             | ○       | ○                             |       |  |
| Flat terminal                           |   |       | SS  | ○     | ○                             | ○       | ○                             |       |  |
| Block terminal                          |   |       | SL  | -     | -                             | -       | -                             |       |  |

●: Approved ○: Available -: Not available ▲: Factory-mounted accessory  
 Note: \*1 Electrical Appliance and Material Safety Law of Japan

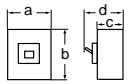
| Rated voltage (V) | Operational voltage range (V) |
|-------------------|-------------------------------|
| 100-230           | 80-264                        |
| 100-230-440       | 80-484                        |

# Earth Leakage Circuit Breakers

## G-TWIN series

### Quick reference guide

#### ■ G-TWIN Standard Series

|   |   |            |                            |                            |         |       |
|---|---|------------|----------------------------|----------------------------|---------|-------|
| Ampere frame                            |   | 63A        |                            |                            |         |       |
| Type                                    |   | EW63EAG    | EW63SAG                    | EW63RAG                    |         |       |
| Pole                                    |   | 3          | 3                          | 3                          |         |       |
| Rated current                           | Reference amb. temp. (40°C)   | In(A)      | 60, 63                     | 60, 63                     |         |       |
| Rated impulse withstand voltage         |   | Uimp(kV)   | 6                          | 6                          |         |       |
| Isolation compliant                     |   |            | ●                          | ●                          |         |       |
| Rated voltage Ue (AC V)                 |   |            | 100-230-440                | 100-230-440                |         |       |
| Rated sensitive current (mA)            |   |            | 15, 30, 100/200 changeover | 30, 100/200/500 changeover |         |       |
| Tripping time (s)                       |   |            | 0.1 or less                | 0.1 or less                |         |       |
| Rated breaking capacity<br>Icu/Ics (kA) | IEC 60947-2<br>EN 60947-2<br>JIS C 8201-2-2   | AC         | 440V                       | 2.5/2                      | 7.5/4   | 10/5  |
|   |   |            | 415V                       | 2.5/2                      | 7.5/4   | 10/5  |
|   |   |            | 400V                       | 2.5/2                      | 7.5/4   | 10/5  |
|   |   |            | 380V                       | 2.5/2                      | 7.5/4   | 10/5  |
|   |   |            | 230V                       | 5/3                        | 10/5    | 25/13 |
|   |   |            | 200V                       | 5/3                        | 10/5    | 25/13 |
|   |   |            | 100V                       | 5/3                        | 10/5    | 25/13 |
|   | GB14048.2   | AC         | 400V                       | 2.5/2                      | 7.5/4   | 10/5  |
|   |   |            | 230V                       | 5/3                        | 10/5    | 25/13 |
| Conforming to standards                 | CE Marking  |            | ● (TÜV)                    | ● (TÜV)                    | ● (TÜV) |       |
|   | CCC certificate   |            | ●                          | ●                          | ●       |       |
|   | Electrical Appliance and Material Safety Law *1                                     |            | ●                          | ●                          | ●       |       |
| Dimensions (mm)                         |  | a          | 75                         | 75                         | 75      |       |
|   |   | b          | 100                        | 100                        | 100     |       |
|   |   | c          | 60                         | 60                         | 60      |       |
|   |   | d          | 84                         | 84                         | 84      |       |
| Mass (kg)                               |   |            | 0.6                        | 0.6                        | 0.6     |       |
| Tripping device                         |   |            | Hydraulic-magnetic         |                            |         |       |
| Front mounting, front connection        | No-mark   | ○          | ○                          | ○                          |         |       |
| Front mounting, rear connection         | X   | ○          | ○                          | ○                          |         |       |
| Flush mounting, front connection        | E   | ○          | ○                          | ○                          |         |       |
| Flush mounting, top & bottom connection | Y   | ○          | ○                          | ○                          |         |       |
| Plug-in mounting                        | P   | ○          | ○                          | ○                          |         |       |
| IEC 35mm wide rail mounting             | No-mark   | ○          | ○                          | ○                          |         |       |
| Internal accessories                    |   | Page 07/57 |                            |                            |         |       |
| Alarm switch                            | K   | ○          | ○                          | ○                          |         |       |
| Auxiliary switch                        | W   | ○          | ○                          | ○                          |         |       |
| Undervoltage trip                       | R   | ○          | ○                          | ○                          |         |       |
| Shunt trip                              | F   | ○          | ○                          | ○                          |         |       |
| Earth alarm switch                      | L   | -          | -                          | -                          |         |       |
| External accessories                    |   | Page 07/60 |                            |                            |         |       |
| Handle padlocking device                | Cap type  | QN         | ○                          | ○                          |         |       |
| Handle padlocking device                | Plate type  | Q2         | ▲                          | ▲                          |         |       |
| Operating handle                        | N-type  | N          | ○                          | ○                          |         |       |
| Operating handle                        | V-type  | V          | ○                          | ○                          |         |       |
| Terminal cover                          | Short   | BT□S       | ○                          | ○                          |         |       |
| Terminal cover                          | Long  | BT□L       | ○                          | ○                          |         |       |
| Insulation barrier                      | Interphase  | BP         | ○                          | ○                          |         |       |
|   | Earth   | BL         | ○                          | ○                          |         |       |
| Handle locking cover                    |   | L1         | ○                          | ○                          |         |       |
| Flat terminal                           |   | SS         | ○                          | ○                          |         |       |
| Block terminal                          |   | SL         | -                          | -                          |         |       |

●: Approved ○: Available -: Not available ▲: Factory-mounted accessory  
 Note: \*1 Electrical Appliance and Material Safety Law of Japan

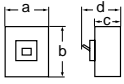
| Rated voltage (V) | Operational voltage range (V) |
|-------------------|-------------------------------|
| 100-230           | 80-264                        |
| 100-230-440       | 80-484                        |

# Earth Leakage Circuit Breakers

## G-TWIN series

### Quick reference guide

#### ■ G-TWIN Standard Series

|   |   |   |                            |     |                        |
|---|---|---|----------------------------|-----|------------------------|
| Ampere frame                            |   |   | 100A                       |     |                        |
| Type                                    |   |   | EW100AAG                   |     | EW100EAG               |
| Pole                                    |   |   | 3                          |     | 2                      |
| Rated current                           | Reference amb. temp. (40°C)                     | In(A)   | 60, 63, 75, 100            |     | 50, 60, 63, 75, 100    |
| Rated impulse withstand voltage         |   | Uimp(kV)  | 4                          |     | 6                      |
| Isolation compliant                     |   |   | ●                          |     | ●                      |
| Rated voltage Ue (AC V)                 |   |   | 100-230                    |     | 100-230                |
| Rated sensitive current (mA)            |   |   | 30, 100/200/500 changeover |     | 30, 100/200 changeover |
| Tripping time (s)                       |   |   | 0.1 or less                |     | 0.1 or less            |
| Rated breaking capacity<br>Icu/Ics (kA) | IEC 60947-2<br>EN 60947-2<br>JIS C 8201-2-2     | AC  | 440V                       | –   | –                      |
|   |   |   | 415V                       | –   | –                      |
|   |   |   | 400V                       | –   | –                      |
|   |   |   | 380V                       | –   | –                      |
|   |   |   | 230V                       | 5/3 | 10/5                   |
|   |   |   | 200V                       | 5/3 | 10/5                   |
|   |   |   | 100V                       | 5/3 | 10/5                   |
|   | GB14048.2                                       | AC  | 400V                       | –   | –                      |
|   |   |   | 230V                       | 5/3 | 10/5                   |
| Conforming to standards                 | CE Marking                                      |   | ● (TÜV)                    |     | ● (TÜV)                |
|   | CCC certificate                                 |   | ●                          |     | ●                      |
|   | Electrical Appliance and Material Safety Law *1 |   | ●                          |     | ●                      |
| Dimensions (mm)                         |   |  | a                          | 75  | 75                     |
|   |   |   | b                          | 100 | 100                    |
|   |   |   | c                          | 60  | 60                     |
|   |   |   | d                          | 84  | 84                     |
|   |   |   | Mass (kg)                  | 0.6 |                        |
| Tripping device                         |   |   | Thermal -magnetic          |     |                        |
| Front mounting, front connection        | No-mark   | ○   | ○                          | ○   |                        |
| Front mounting, rear connection         | X   | ○   | ○                          | ○   |                        |
| Flush mounting, front connection        | E   | ○   | ○                          | ○   |                        |
| Flush mounting, top & bottom connection | Y   | ○   | ○                          | ○   |                        |
| Plug-in mounting                        | P   | ○   | ○                          | ○   |                        |
| IEC 35mm wide rail mounting             | No-mark   | ○   | ○                          | ○   |                        |
| Internal accessories                    |   |   | Page 07/57                 |     |                        |
| Alarm switch                            | K   | ○   | ○                          | ○   |                        |
| Auxiliary switch                        | W   | ○   | ○                          | ○   |                        |
| Undervoltage trip                       | R   | ○   | ○                          | ○   |                        |
| Shunt trip                              | F   | ○   | ○                          | ○   |                        |
| Earth alarm switch                      | L   | –   | –                          | –   |                        |
| External accessories                    |   |   | Page 07/60                 |     |                        |
| Handle padlocking device                | Cap type  | QN  | ○                          | ○   |                        |
| Handle padlocking device                | Plate type                                      | Q2  | ▲                          | ▲   |                        |
| Operating handle                        | N-type  | N   | ○                          | ○   |                        |
| Operating handle                        | V-type  | V   | ○                          | ○   |                        |
| Terminal cover                          | Short   | BT□S  | ○                          | ○   |                        |
| Terminal cover                          | Long  | BT□L  | ○                          | ○   |                        |
| Insulation barrier                      | Interphase                                      | BP  | ○                          | ○   |                        |
|   | Earth   | BL  | ○                          | ○   |                        |
| Handle locking cover                    |   | L1  | ○                          | ○   |                        |
| Flat terminal                           |   | SS  | ○                          | ○   |                        |
| Block terminal                          |   | SL  | –                          | –   |                        |

●: Approved ○: Available –: Not available ▲: Factory-mounted accessory  
 Note: \*1 Electrical Appliance and Material Safety Law of Japan

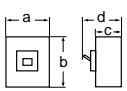
| Rated voltage (V) | Operational voltage range (V) |
|-------------------|-------------------------------|
| 100–230           | 80–264                        |
| 100–230–440       | 80–484                        |

# Earth Leakage Circuit Breakers

## G-TWIN series

### Quick reference guide

#### ■ G-TWIN Standard Series

|                                      |   |  |                     |          |                     |          |                     |     |
|--------------------------------------|---|--|---------------------|----------|---------------------|----------|---------------------|-----|
| Ampere frame                         |   | 125A                                       |                     |          |                     |          |                     |     |
| Type                                 |   | EW125JAG                                   |                     | EW125SAG |                     | EW125RAG |                     |     |
| Pole                                 |   | 3  | 4                   | 3        | 4                   | 3        | 4                   |     |
| Rated current                        | Reference amb. temp. (40°C)   | In(A) 15, 20, 30, 40, 50, 60, 75, 100, 125 |                     |          |                     |          |                     |     |
| Rated impulse withstand voltage      |   | Uimp(kV) 6                                 |                     | 6        |                     | 6        |                     |     |
| Isolation compliant                  |   | ●  |                     | ●        |                     | ●        |                     |     |
| Rated voltage Ue (AC V)              |   | 100-230-440                                |                     |          |                     |          |                     |     |
| Type of earth leakage trip action    |   | AC type                                    |                     |          |                     |          |                     |     |
| Instantaneous trip type              | Rated sensitive current (mA)  | 30   |                     |          |                     |          |                     |     |
|                                      | Tripping time (s)   | 0.1 or less                                |                     |          |                     |          |                     |     |
| Instantaneous/time-delay trip type   | Rated sensitive current (mA)  | 100/300/500/1000 changeover                |                     |          |                     |          |                     |     |
|                                      | Tripping time (s)   | 0.1/0.4/1/2 changeover                     |                     |          |                     |          |                     |     |
|                                      | Inertia non-tripping time (s) (2IΔn)  | 0/0.2/0.5/1                                |                     |          |                     |          |                     |     |
| Rated breaking capacity Icu/Ics (kA) | IEC60947-2<br>EN60947-2<br>JISC8201-2-2   | AC   | 440V                | 30/15    | 36/18               | 50/25    |                     |     |
|                                      |   |  | 415V                | 30/15    | 36/18               | 50/25    |                     |     |
|                                      |   |  | 400V                | 30/15    | 36/18               | 50/25    |                     |     |
|                                      |   |  | 380V                | 30/15    | 36/18               | 50/25    |                     |     |
|                                      |   |  | 230V                | 50/25    | 85/43               | 100/50   |                     |     |
|                                      |   |  | 200V                | 50/25    | 85/43               | 100/50   |                     |     |
|                                      |   |  | 100V                | 50/25    | 85/43               | 100/50   |                     |     |
|                                      | GB14048.2   | AC   | 400V                | 30/15    | 36/18               | 50/25    |                     |     |
|                                      |   |  | 230V                | 50/25    | 85/43               | 100/50   |                     |     |
|                                      |   |  |                     |          |                     |          |                     |     |
| Conforming to standards              | CE Marking  |  | ● (TÜV)             |          | ● (TÜV)             |          | ● (TÜV)             |     |
|                                      | CCC certificate   |  | ●                   |          | ●                   |          | ●                   |     |
|                                      | Electrical Appliance and Material Safety Law *1                                     |  | ● (except for 125A) |          | ● (except for 125A) |          | ● (except for 125A) |     |
| Dimensions (mm)                      |  | a  | 90                  | 120      | 90                  | 120      | 90                  | 120 |
|                                      |   | b  | 155                 |          | 155                 |          | 155                 |     |
|                                      |   | c  | 68                  |          | 68                  |          | 68                  |     |
|                                      |   | d  | 95                  |          | 95                  |          | 95                  |     |
|                                      |   |  |                     |          |                     |          |                     |     |
| Mass (kg)                            |   | 1.3  | 1.7                 | 1.2      | 1.6                 | 1.3      | 1.7                 |     |
| Tripping device                      |   | Thermal-magnetic                           |                     |          |                     |          |                     |     |
| Front mounting, front connection     | No-mark   | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Front mounting, rear connection      | X   | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Flush mounting, front connection     | E   | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Plug-in mounting                     | P   | ○  | -                   | ○        | -                   | ○        | -                   |     |
| Internal accessories Page 07/58      |   |  |                     |          |                     |          |                     |     |
| Alarm switch                         | K   | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Auxiliary switch                     | W   | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Undervoltage trip                    | R   | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Shunt trip                           | F   | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Earth alarm switch                   | L   | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| External accessories Page 07/60      |   |  |                     |          |                     |          |                     |     |
| Handle padlocking device Cap type    | Q1  | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Handle padlocking device Plate type  | Q2  | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Operating handle N-type              | N   | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Operating handle V-type              | V   | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Terminal cover Short                 | BTCS  | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Terminal cover Long                  | BTCL  | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Insulation barrier Interphase        | BP  | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Handle locking cover                 | L1  | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Flat terminal                        | SS  | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |
| Block terminal                       | SL  | ○  | ○                   | ○        | ○                   | ○        | ○                   |     |

●: Approved ○: Available -: Not available ▲: Factory-mounted accessory  
 Note: \*1 Electrical Appliance and Material Safety Law of Japan

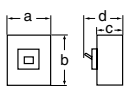
| Rated voltage (V) | Operational voltage range (V) |
|-------------------|-------------------------------|
| 100-230-440       | 80-484                        |

# Earth Leakage Circuit Breakers

## G-TWIN series

### Quick reference guide

#### ■ G-TWIN Standard Series

|   |   |                  |                             |               |         |          |         |          |         |     |   |
|---|---|------------------|-----------------------------|---------------|---------|----------|---------|----------|---------|-----|---|
| Ampere frame                              |   | 160A             |                             |               |         |          |         |          |         |     |   |
| Type                                      |   | EW160EAG         |                             | EW160JAG      |         | EW160SAG |         | EW160RAG |         |     |   |
| Pole                                      |   | 3                |                             | 3             |         | 4        |         | 3        |         | 4   |   |
| Rated current Reference amb. temp. (40°C) |   | In(A)            |                             | 125, 150, 160 |         |          |         |          |         |     |   |
| Rated impulse withstand voltage           |   | Uimp(kV)         |                             | 6             |         | 6        |         | 6        |         | 6   |   |
| Isolation compliant                       |   | ●                |                             | ●             |         | ●        |         | ●        |         | ●   |   |
| Rated voltage Ue (AC V)                   |   | 100-230-440      |                             |               |         |          |         |          |         |     |   |
| Type of earth leakage trip action         |   | AC type          |                             |               |         |          |         |          |         |     |   |
| Instantaneous trip type                   | Rated sensitive current (mA)  |                  | 30                          |               |         |          |         |          |         |     |   |
|   | Tripping time (s)   |                  | 0.1 or less                 |               |         |          |         |          |         |     |   |
| Instantaneous/time-delay trip type        | Rated sensitive current (mA)  |                  | 100/300/500/1000 changeover |               |         |          |         |          |         |     |   |
|   | Tripping time (s)   |                  | 0.1/0.4/1/2 changeover      |               |         |          |         |          |         |     |   |
|   | Inertia non-tripping time (s) (2IΔn)  |                  | 0/0.2/0.5/1                 |               |         |          |         |          |         |     |   |
| Rated breaking capacity Icu/Ics (kA)      | IEC60947-2<br>EN60947-2<br>JISC8201-2-2   | AC               | 440V                        | 18/9          | 30/15   | 36/18    | 50/25   |          |         |     |   |
|   |   |                  | 415V                        | 18/9          | 30/15   | 36/18    | 50/25   |          |         |     |   |
|   |   |                  | 400V                        | 18/9          | 30/15   | 36/18    | 50/25   |          |         |     |   |
|   |   |                  | 380V                        | 18/9          | 30/15   | 36/18    | 50/25   |          |         |     |   |
|   |   |                  | 230V                        | 36/18         | 50/25   | 85/43    | 100/50  |          |         |     |   |
|   |   |                  | 200V                        | 36/18         | 50/25   | 85/43    | 100/50  |          |         |     |   |
|   |   |                  | 100V                        | 36/18         | 50/25   | 85/43    | 100/50  |          |         |     |   |
|   | GB14048.2   | AC               | 400V                        | 18/9          | 30/15   | 36/18    | 50/25   |          |         |     |   |
|   |   |                  | 230V                        | 36/18         | 50/25   | 85/43    | 100/50  |          |         |     |   |
|   |   |                  |                             |               |         |          |         |          |         |     |   |
| Conforming to standards                   | CE Marking certified (TÜV)  |                  | ● (TÜV)                     |               | ● (TÜV) |          | ● (TÜV) |          | ● (TÜV) |     |   |
|   | CCC certificate   |                  | ●                           |               | ●       |          | ●       |          | ●       |     |   |
| Dimensions (mm)                           |  | a                | 105                         | 105           | 140     | 105      | 140     | 105      | 140     |     |   |
|   |   | b                | 165                         | 165           |         | 165      |         | 165      |         |     |   |
|   |   | c                | 68                          | 68            |         | 68       |         | 68       |         |     |   |
|   |   | d                | 95                          | 95            |         | 95       |         | 95       |         |     |   |
| Mass (kg)                                 |   | 1.8              |                             | 1.8           |         | 2.3      |         | 1.8      |         | 2.3 |   |
| Tripping device                           |   | Thermal-magnetic |                             |               |         |          |         |          |         |     |   |
| Front mounting, front connection          | No-mark   | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Front mounting, rear connection           | X   | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Flush mounting, front connection          | E   | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Plug-in mounting                          | P   | ○                | ○                           | —             | ○       | —        | ○       | —        | ○       | —   | ○ |
| Internal accessories Page 07/58           |   |                  |                             |               |         |          |         |          |         |     |   |
| Alarm switch                              | K   | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Auxiliary switch                          | W   | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Undervoltage trip                         | R   | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Shunt trip                                | F   | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Earth alarm switch                        | L   | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| External accessories Page 07/60           |   |                  |                             |               |         |          |         |          |         |     |   |
| Handle padlocking device                  | Cap type Q1   | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Handle padlocking device                  | Plate type Q2   | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Operating handle                          | N-type N  | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Operating handle                          | V-type V  | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Terminal cover                            | Short BTCS  | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Terminal cover                            | Long BTCL   | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Insulation barrier                        | Interphase BP   | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Handle locking cover                      | L1  | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Flat terminal                             | SS  | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |
| Block terminal                            | SL  | ○                | ○                           | ○             | ○       | ○        | ○       | ○        | ○       | ○   | ○ |

●: Approved ○: Available —: Not available ▲: Factory-mounted accessory  
 Note: \*1 Electrical Appliance and Material Safety Law of Japan

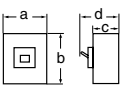
|                   |                               |
|-------------------|-------------------------------|
| Rated voltage (V) | Operational voltage range (V) |
| 100–230–440       | 80–484                        |

# Earth Leakage Circuit Breakers

## G-TWIN series

### Quick reference guide

#### ■ G-TWIN Standard Series

|                                      |   |                  |                             |                    |         |             |         |                 |     |  |
|--------------------------------------|---|------------------|-----------------------------|--------------------|---------|-------------|---------|-----------------|-----|--|
| Ampere frame                         |   | 250A             |                             |                    |         |             |         |                 |     |  |
| Type                                 |   | EW250EAG         |                             | EW250JAG           |         | EW250SAG    |         | EW250RAG        |     |  |
| Pole                                 |   | 3                |                             | 3 4                |         | 3 4         |         | 3 4             |     |  |
| Rated current                        | Reference amb. temp. (40°C)   | In(A)            |                             | 175, 200, 225, 250 |         | 175,200,225 |         | 175,200,225,250 |     |  |
| Rated impulse withstand voltage      |   | Uimp(kV)         |                             | 6                  |         | 6           |         | 6               |     |  |
| Isolation compliant                  |   | ●                |                             | ●                  |         | ●           |         | ●               |     |  |
| Rated voltage Ue (AC V)              |   | 100-230-440      |                             |                    |         |             |         |                 |     |  |
| Type of earth leakage trip action    |   | AC type          |                             |                    |         |             |         |                 |     |  |
| Instantaneous trip type              | Rated sensitive current (mA)  |                  | 30                          |                    |         |             |         |                 |     |  |
|                                      | Tripping time (s)   |                  | 0.1 or less                 |                    |         |             |         |                 |     |  |
| Instantaneous/time-delay trip type   | Rated sensitive current (mA)  |                  | 100/300/500/1000 changeover |                    |         |             |         |                 |     |  |
|                                      | Tripping time (s)   |                  | 0.1/0.4/1/2 changeover      |                    |         |             |         |                 |     |  |
|                                      | Inertia non-tripping time (s) (2IΔn)  |                  | 0/0.2/0.5/1                 |                    |         |             |         |                 |     |  |
| Rated breaking capacity Icu/Ics (kA) | IEC60947-2<br>EN60947-2<br>JISC8201-2-2   | AC               | 440V                        | 18/9               | 30/15   | 36/18       | 50/25   |                 |     |  |
|                                      |   |                  | 415V                        | 18/9               | 30/15   | 36/18       | 50/25   |                 |     |  |
|                                      |   |                  | 400V                        | 18/9               | 30/15   | 36/18       | 50/25   |                 |     |  |
|                                      |   |                  | 380V                        | 18/9               | 30/15   | 36/18       | 50/25   |                 |     |  |
|                                      |   |                  | 230V                        | 36/18              | 50/25   | 85/43       | 100/50  |                 |     |  |
|                                      |   |                  | 200V                        | 36/18              | 50/25   | 85/43       | 100/50  |                 |     |  |
|                                      |   |                  | 100V                        | 36/18              | 50/25   | 85/43       | 100/50  |                 |     |  |
|                                      | GB14048.2   | AC               | 400V                        | 18/9               | 30/15   | 36/18       | 50/25   |                 |     |  |
|                                      |   |                  | 230V                        | 36/18              | 50/25   | 85/43       | 100/50  |                 |     |  |
|                                      |   |                  |                             |                    |         |             |         |                 |     |  |
| Conforming to standards              | CE Marking  |                  | ● (TÜV)                     |                    | ● (TÜV) |             | ● (TÜV) |                 |     |  |
|                                      | CCC certificate   |                  | ●                           |                    | ●       |             | ●       |                 |     |  |
| Dimensions (mm)                      |  | a                | 105                         | 105                | 140     | 105         | 140     | 105             | 140 |  |
|                                      |   | b                | 165                         | 165                |         | 165         |         | 165             |     |  |
|                                      |   | c                | 68                          | 68                 |         | 68          |         | 68              |     |  |
|                                      |   | d                | 95                          | 95                 |         | 95          |         | 95              |     |  |
|                                      |   |                  |                             |                    |         |             |         |                 |     |  |
| Mass (kg)                            |   |                  | 1.8                         | 1.8                | 2.3     | 1.8         | 2.3     | 1.8             | 2.3 |  |
| Tripping device                      |   | Thermal-magnetic |                             |                    |         |             |         |                 |     |  |
| Front mounting, front connection     | No-mark   | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Front mounting, rear connection      | X   | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Flush mounting, front connection     | E   | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Plug-in mounting                     | P   | ○                | ○                           | —                  | ○       | ○           | —       | ○               | —   |  |
| Internal accessories Page 07/58      |   |                  |                             |                    |         |             |         |                 |     |  |
| Alarm switch                         | K   | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Auxiliary switch                     | W   | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Undervoltage trip                    | R   | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Shunt trip                           | F   | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Earth alarm switch                   | L   | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| External accessories Page 07/60      |   |                  |                             |                    |         |             |         |                 |     |  |
| Handle padlocking device             | Cap type Q1   | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Handle padlocking device             | Plate type Q2   | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Operating handle                     | N-type N  | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Operating handle                     | V-type V  | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Terminal cover                       | Short BT□S  | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Terminal cover                       | Long BT□L   | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Insulation barrier                   | Interphase BP   | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Handle locking cover                 | L1  | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Flat terminal                        | SS  | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |
| Block terminal                       | SL  | ○                | ○                           | ○                  | ○       | ○           | ○       | ○               | ○   |  |

●: Approved ○: Available —: Not available ▲: Factory-mounted accessory  
 Note: \*1 Electrical Appliance and Material Safety Law of Japan

|                   |                               |
|-------------------|-------------------------------|
| Rated voltage (V) | Operational voltage range (V) |
| 100-230-440       | 80-484                        |