

### ■ Breaking capacities

#### Earth leakage + Overcurrent + Short-circuit protection

• IEC 60947-2, EN60947-2, JIS C8201-2-2 IEC and CE marking conformed

| Series | Breaker<br>ampere<br>frame | Breaker<br>type    | Pole                    | Rated current<br>(A)            | Rated voltage<br>(V AC) | Sensitive current<br>(mA) | Breaking capacity (kA) (Icu/Ics) |        |       |       |       |
|--------|----------------------------|--------------------|-------------------------|---------------------------------|-------------------------|---------------------------|----------------------------------|--------|-------|-------|-------|
|        |                            |                    |                         |                                 |                         |                           | 100V                             | 230V   | 400V  | 415V  | 440V  |
| SG     | 30                         | <b>SG33C□-CE</b>   | 3                       | 3, 5, 10, 15, 20, 30            | 100–440                 | 30, 100/200/500           | 5/3                              | 5/3    | 2.5/2 | 2.5/2 | 2.5/2 |
|        | 50                         | <b>SG53C□-CE</b>   | 3                       | 5, 10, 15, 20, 30, 40, 50       | 100–440                 | 30, 100/200/500           | 10/5                             | 10/5   | 7.5/4 | 7.5/4 | 7.5/4 |
|        |                            | <b>SG53RC□-CE</b>  | 3                       | 10, 15, 20, 30, 40, 50          | 100–440                 | 30, 100/200/500           | 25/13                            | 25/13  | 10/5  | 10/5  | 10/5  |
|        | 60                         | <b>SG63C□-CE</b>   | 3                       | 60                              | 100–440                 | 30, 100/200/500           | 10/5                             | 10/5   | 7.5/4 | 7.5/4 | 7.5/4 |
|        |                            | <b>SG63RC□-CE</b>  | 3                       | 60                              | 100–440                 | 30, 100/200/500           | 25/13                            | 25/13  | 10/5  | 10/5  | 10/5  |
|        | 100                        | <b>SG103C□-CE</b>  | 3                       | 15, 20, 30, 40, 50, 60, 75, 100 | 100–440                 | 30, 100/200/500           | 50/25                            | 50/25  | 30/8  | 25/7  | 25/7  |
|        |                            | <b>SG103RC□-CE</b> | 3                       | 15, 20, 30, 40, 50, 60, 75, 100 | 100–440                 | 30, 100/200/500           | 100/50                           | 100/50 | 50/13 | 50/13 | 50/13 |
| 225    | <b>SG203C□-CE</b>          | 3                  | 125, 150, 175, 200, 225 | 100–440                         | 30, 100/200/500         | 50/25                     | 50/25                            | 30/8   | 25/7  | 25/7  |       |
|        | <b>SG203RC□-CE</b>         | 3                  | 125, 150, 175, 200, 225 | 100–440                         | 30, 100/200/500         | 100/50                    | 100/50                           | 50/13  | 50/13 | 50/13 |       |
| 400    | <b>SG403C□-CE</b>          | 3                  | 250, 300, 350, 400      | 100–440                         | 30, 100/200/500         | 50/25                     | 50/25                            | 35/18  | 35/18 | 35/18 |       |
| EG     | 30                         | <b>EG32AC□-CE</b>  | 2                       | 5, 10, 15, 20, 30               | 100–230                 | 15, 30, 100               | 2.5/2                            | 2.5/2  | –     | –     | –     |
|        | 30                         | <b>EG33AC□-CE</b>  | 3                       | 5, 10, 15, 20, 30               | 100–230                 | 15, 30, 100               | 2.5/2                            | 2.5/2  | –     | –     | –     |
|        |                            | <b>EG33C□-CE</b>   | 3                       | 5, 10, 15, 20, 30               | 100–440                 | 15, 30, 100               | 5/3                              | 2.5/2  | 1.5/1 | 1.5/1 | 1.5/1 |
|        | 50                         | <b>EG52AC□-CE</b>  | 2                       | 5, 10, 15, 20, 30, 40, 50       | 100–230                 | 15, 30, 100               | 2.5/2                            | 2.5/2  | –     | –     | –     |
|        | 50                         | <b>EG53AC□-CE</b>  | 3                       | 5, 10, 15, 20, 30, 40, 50       | 100–230                 | 15, 30, 100               | 2.5/2                            | 2.5/2  | –     | –     | –     |
|        |                            | <b>EG53C□-CE</b>   | 3                       | 5, 10, 15, 20, 30, 40, 50       | 100–440                 | 15, 30, 100/200           | 5/3                              | 5/3    | 2.5/2 | 2.5/2 | 2.5/2 |
|        | 60                         | <b>EG63C□-CE</b>   | 3                       | 60                              | 100–440                 | 15, 30, 100/200           | 5/3                              | 5/3    | 2.5/2 | 2.5/2 | 2.5/2 |
|        | 100                        | <b>EG103AC□-CE</b> | 3                       | 60, 75, 100                     | 100–230                 | 30, 100/200               | 5/3                              | 5/3    | –     | –     | –     |
|        | 100                        | <b>EG102C□-CE</b>  | 2                       | 50, 60, 75, 100                 | 100–230                 | 30, 100/200               | 10/5                             | 10/5   | –     | –     | –     |
|        |                            | <b>EG103C□-CE</b>  | 3                       | 50, 60, 75, 100                 | 100–440                 | 30, 100/200/500           | 25/13                            | 25/13  | 10/5  | 10/5  | 10/5  |
|        | 225                        | <b>EG203C□-CE</b>  | 3                       | 125, 150, 175, 200, 225         | 100–440                 | 30, 100/200/500           | 35/18                            | 35/18  | 18/5  | 15/4  | 15/4  |
|        | 400                        | <b>EG403C□-CE</b>  | 3                       | 250, 300, 350, 400              | 100–440                 | 30, 100/200/500           | 35/18                            | 35/18  | 25/13 | 25/13 | 25/13 |

# Earth Leakage Circuit Breakers

## Breaking capacities

### ■ Breaking capacities

#### Earth leakage + Overcurrent + Short-circuit protection type

##### • IEC 60947-2 Ed.2 , JIS C8201-2-2 Ann.2

| Series | Breaker<br>ampere<br>frame | Breaker<br>type | Pole                    | Rated current<br>(A)            | Rated voltage<br>(V AC) | Sensitive current<br>(mA) | Breaking capacity (kA) [Icu] |      |      |      |      |
|--------|----------------------------|-----------------|-------------------------|---------------------------------|-------------------------|---------------------------|------------------------------|------|------|------|------|
|        |                            |                 |                         |                                 |                         |                           | 100V                         | 230V | 400V | 415V | 440V |
| SG     | 400                        | <b>SG403RC</b>  | 3                       | 250, 300, 350, 400              | 100-440                 | 30, 100/200/500           | 85                           | 85   | 50   | 50   | 50   |
|        | 600                        | <b>SG603RC</b>  | 3                       | 500, 600                        | 100-440                 | 100/200/500               | 85                           | 85   | 50   | 50   | 50   |
|        | 800                        | <b>SG803RC</b>  | 3                       | 700, 800                        | 100-440                 | 100/200/500               | 85                           | 85   | 50   | 50   | 50   |
|        | 100                        | <b>SGa104A</b>  | 4                       | 40, 50, 60, 75, 100             | 200-415                 | 30, 100/200/500           | –                            | 50   | 25   | 25   | –    |
|        | 100                        | <b>SG104H</b>   | 4                       | 50, 60, 75, 100                 | 200-415                 | 30, 100/200/500           | –                            | 85   | 42   | 42   | –    |
|        | 225                        | <b>SGa204A</b>  | 4                       | 125, 150, 175, 200, 225         | 200-415                 | 30, 100/200/500           | –                            | 42   | 25   | 25   | –    |
| 225    | <b>SG204H</b>              | 4               | 125, 150, 175, 200, 225 | 200-415                         | 30, 100/200/500         | –                         | 85                           | 42   | 42   | –    |      |
| 400    | <b>SGa404A</b>             | 4               | 250, 300, 350, 400      | 200-415                         | 30, 100/200/500         | –                         | 42                           | 25   | 25   | –    |      |
| EG     | 100                        | <b>EG104A</b>   | *                       | 30, 40, 50, 60, 75, 100         | 380-415                 | 30, 100, 300, 500         | –                            | –    | –    | 14   | –    |
|        | 600                        | <b>EG603C</b>   | 3                       | 500, 600                        | 100-415                 | 100/200/500               | 50                           | 50   | 35   | 35   | 35   |
|        | 800                        | <b>EG803C</b>   | 3                       | 700, 800                        | 100-415                 | 100/200/500               | 50                           | 50   | 35   | 35   | 35   |
| HG     | 50                         | <b>HG53B</b>    | 3                       | 15, 20, 30, 40, 50              | 100-415                 | 30, 100/200/500           | 100                          | 100  | 65   | 65   | 65   |
|        | 100                        | <b>HG103B</b>   | 3                       | 15, 20, 30, 40, 50, 60, 75, 100 | 100-415                 | 30, 100/200/500           | 100                          | 100  | 65   | 65   | 65   |
|        | 225                        | <b>HG203B</b>   | 3                       | 125, 150, 175, 200, 225         | 100-415                 | 30, 100/200/500           | 100                          | 100  | 65   | 65   | 65   |
|        | 400                        | <b>HG403B</b>   | 3                       | 250, 300, 350, 400              | 100-415                 | 30, 100/200/500           | 125                          | 125  | 65   | 65   | 65   |
|        | 600                        | <b>HG603B</b>   | 3                       | 500, 600                        | 100-415                 | 100/200/500               | 125                          | 125  | 65   | 65   | 65   |
|        | 800                        | <b>HG803B</b>   | 3                       | 700, 800                        | 100-415                 | 100/200/500               | 125                          | 125  | 65   | 65   | 65   |

Note: \* 3P+1N, neutral phase cannot be made or broken.

##### • UL489 Listed

| Breaker<br>ampere<br>frame | Breaker<br>type | Pole | Rated current<br>(A)         | Rated voltage<br>(V AC) | Sensitive current<br>(mA) | Breaking capacity (kA) |
|----------------------------|-----------------|------|------------------------------|-------------------------|---------------------------|------------------------|
|                            |                 |      |                              |                         |                           | 240V                   |
| 50                         | <b>SG53RCUL</b> | 3    | 3, 5, 10, 15, 20, 30, 40, 50 | 100-440                 | 30, 100/200/500           | 14                     |
| 100                        | <b>EG102CUL</b> | 2    | 60, 70, 75, 80, 90, 100      | 100-440                 | 30, 100/200               | 14                     |
| 100                        | <b>EG103CUL</b> | 3    | 60, 70, 75, 80, 90, 100      | 100-440                 | 30, 100/200/500           | 14                     |
| 100                        | <b>SG103CUL</b> | 3    | 32, 40, 50, 60, 75, 100      | 100-440                 | 30, 100/200/500           | 35                     |
| 225                        | <b>SG203CUL</b> | 3    | 125, 150, 175, 200, 225      | 100-440                 | 30, 100/200/500           | 35                     |
| 400                        | <b>SG403CUL</b> | 3    | 250, 300, 350, 400           | 100-440                 | 30, 100/200/500           | 42                     |