


Ratings

Metasol

Circuit Breaker



| Type | | |
|---|---|-----------------------------|
| Ampere frame | (AF) | |
| Rated current (A) | (In max) | at 40°C |
| Setting current (A)* | Control trip relay (... × In max) | |
| Rated current of neutral pole (A) | | |
| Rated insulation voltage (V) | (Ui) | |
| Rated operational voltage (V) | (Ue) | |
| Rated impulse withstand voltage (kV) (Uimp) | | |
| Frequency (Hz) | | |
| Number of poles (P) | | |
| Rated breaking capacity (kA sym) | | 220V/230V/380V/415V |
| AC 50/60Hz | (lcu) | IEC 60947-2 |
| | | KS C 4620 |
| | | 460V/480V/500V |
| | | 550V/600V/690V |
| Rated service breaking capacity (kA) (lcs) | | ... %×lcu |
| Rated making capacity (kA peak) | | 220V/230V/380V/415V |
| AC 50/60Hz | (lcm) | IEC 60947-2 |
| | | KS C 4620 |
| | | 460V/480V/500V |
| | | 550V/600V/690V |
| Rated short-time withstand current (kA) | (lcw) | |
| | | 1 sec |
| | | 2 sec |
| | | 3 sec |
| Operating time (ms) | | Maximum total breaking time |
| | | Maximum closing time |
| Life cycle (time) | | Mechanical |
| | | Electrical |
| Connections** | Draw-out / Fixed | |
| | | Horizontal connection |
| | | Vertical connection |
| | | Front connection |
| | | Mixed connection |
| Weight (kg) (3P/4P) | Draw-out type | Main body |
| | | (With cradle) |
| | | Cradle only |
| | Fixed type | |
| | | Motor charging type |
| | | Manual charging type |
| External dimensions (mm) (H×W×D) |  | Draw-out type |
| | | 3P |
| | | 4P |
| | | Fixed type |
| | | 3P |
| | | 4P |
| Trip relay | | |
| Certificate & Approval | | |
| Marine classification | | |

| Metasol | | | | |
|-------------------------|--------|--------|--------|--------|
| AN-06D | AN-08D | AN-10D | AN-13D | AN-16D |
| 630 | 800 | 1000 | 1250 | 1600 |
| 200 | 400 | 1000 | 1250 | 1600 |
| 400 | 630 | | | |
| 630 | 800 | | | |
| 0.4 ~ 1.0 | | | | |
| 400 | 400 | 1000 | 1250 | 1600 |
| 630 | 630 | | | |
| | 800 | | | |
| 1,000 | | | | |
| 690 | | | | |
| 12 | | | | |
| 50/60 | | | | |
| 3/4 | | | | |
| 65 | | | | |
| 65 | | | | |
| 50 | | | | |
| 100% | | | | |
| 143 | | | | |
| 143 | | | | |
| 105 | | | | |
| 50 | | | | |
| 42 | | | | |
| 36 | | | | |
| 40 | | | | |
| 80 | | | | |
| 20,000 | | | | |
| 5,000 | | | | |
| ● | | | | |
| ○ | | | | |
| ○ | | | | |
| ○ | | | | |
| 63/74 | | | | |
| 61/72 | | | | |
| 29/32 | | | | |
| 34/44 | | | | |
| 32/42 | | | | |
| 430 × 334 × 375 | | | | |
| 430 × 419 × 375 | | | | |
| 300 × 300 × 295 | | | | |
| 300 × 385 × 295 | | | | |
| N, A, P type | | | | |
| KS / KEMA / KERI / GOST | | | | |
| - | | | | |

* Refer to trip relay specification. ** ●: Standard, ○: Option

Note) 1. Life time means not guarantee, but limitation.

Quality guarantee: On/Off frequency on the basis of IEC60947-2 within the term of guarantee

2. The use of AN-D, AS-D and AS-F in IT systems is limited to 500 V network voltage.

3. AS-20D, AS-40E types are equipped with vertical-only terminals.

Metasol



| Metasol | | | | | |
|------------------------------------|--------|--------|--------|--------|--------|
| AS-06D | AS-08D | AS-10D | AS-13D | AS-16D | AS-20D |
| 630 | 800 | 1000 | 1250 | 1600 | 2000 |
| 200 | 400 | | | | |
| 400 | 630 | 1000 | 1250 | 1600 | 2000 |
| 630 | 800 | | | | |
| 0.4 ~ 1.0 | | | | | |
| 630 | 800 | 1000 | 1250 | 1600 | 2000 |
| 1,000 | | | | | |
| 690 | | | | | |
| 12 | | | | | |
| 50/60 | | | | | |
| 3/4 | | | | | |
| 70 | | | | | |
| 70 | | | | | |
| 65 | | | | | |
| 100% | | | | | |
| 154 | | | | | |
| 154 | | | | | |
| 143 | | | | | |
| 65 | | | | | |
| 50 | | | | | |
| 42 | | | | | |
| 40 | | | | | |
| 80 | | | | | |
| 20,000 | | | | | |
| 5,000 | | | | | |
| ● | | | | | - |
| ○ | | | | | ● |
| ○ | | | | | - |
| ○ | | | | | - |
| 63/74 | | | | | 70/85 |
| 61/72 | | | | | 63/83 |
| 29/32 | | | | | 33/40 |
| 34/44 | | | | | 38/47 |
| 32/42 | | | | | 36/45 |
| 430×334×375 | | | | | |
| 430×419×375 | | | | | |
| 300×300×295 | | | | | |
| 300×385×295 | | | | | |
| N, A, P type | | | | | |
| KS / KEMA / KERI / GOST | | | | | |
| LR, ABS, DNV, KR, BV, GL, RINA, NK | | | | | |

| Metasol | | | |
|------------------------------------|--------|--------|---------|
| AS-20E | AS-25E | AS-32E | AS-40E |
| 2000 | 2500 | 3200 | 4000 |
| 630, 800 | | | |
| 1000, 1250 | 2500 | 3200 | 4000 |
| 1600, 2000 | | | |
| 0.4 ~ 1.0 | | | |
| 630, 800 | 2500 | 3200 | 4000 |
| 1000, 1250 | | | |
| 1600, 2000 | | | |
| 1,000 | | | |
| 690 | | | |
| 12 | | | |
| 50/60 | | | |
| 3/4 | | | |
| 85 | | | |
| 85 | | | |
| 85 | | | |
| 100% | | | |
| 187 | | | |
| 187 | | | |
| 187 | | | |
| 85 | | | |
| 75 | | | |
| 65 | | | |
| 40 | | | |
| 80 | | | |
| 15,000 | | | |
| 5,000 | | | |
| ● | | | - |
| ○ | | | ● |
| ○ | | | - |
| ○ | | | - |
| 87/103 | | | 104/147 |
| 85/101 | | | 102/145 |
| 44/50 | | | 58/70 |
| 44/55 | | | 63/100 |
| 42/53 | | | 61/98 |
| 430×412×375 | | | |
| 430×527×375 | | | |
| 300×378×295 | | | |
| 300×493×295 | | | |
| N, A, P type | | | |
| KS / KEMA / KERI / GOST | | | |
| LR, ABS, DNV, KR, BV, GL, RINA, NK | | | |

| Metasol | |
|------------------------------------|--------|
| AS-40F | AS-50F |
| 4000 | 5000 |
| 4000 | 5000 |
| 0.4 ~ 1.0 | |
| 4000 | 5000 |
| 1,000 | |
| 690 | |
| 12 | |
| 50/60 | |
| 3/4 | |
| 100 | |
| 100 | |
| 85 | |
| 100% | |
| 220 | |
| 220 | |
| 187 | |
| 85 | |
| 75 | |
| 65 | |
| 40 | |
| 80 | |
| 10,000 | |
| 2,000 | |
| ○ | |
| ● | |
| - | |
| - | |
| 107/139 | |
| 102/145 | |
| 65/85 | |
| 61/81 | |
| 60/80 | |
| 460×629×375 | |
| 460×799×375 | |
| 300×597×295 | |
| 300×767×295 | |
| N, A, P type | |
| KS / KEMA / KERI / GOST | |
| LR, ABS, DNV, KR, BV, GL, RINA, NK | |

| Metasol | | |
|------------------------------------|--------|---------|
| AS-40G | AS-50G | AS-63G |
| 4000 | 5000 | 6300 |
| 4000 | 5000 | 6300 |
| 0.4 ~ 1.0 | | |
| 4000 | 5000 | 6300 |
| 1,000 | | |
| 690 | | |
| 12 | | |
| 50/60 | | |
| 3/4 | | |
| 120 | | |
| 120 | | |
| 100 | | |
| 100% | | |
| 264 | | |
| 264 | | |
| 220 | | |
| 100 | | |
| 85 | | |
| 75 | | |
| 40 | | |
| 80 | | |
| 10,000 | | |
| 2,000 | | |
| ○ | | |
| ● | | |
| - | | |
| - | | |
| 181/223 | | 186/230 |
| 179/221 | | 184/228 |
| 97/117 | | 102/124 |
| 98/123 | | 103/130 |
| 96/121 | | 101/128 |
| 460×785×375 | | |
| 460×1015×375 | | |
| 300×751×295 | | |
| 300×981×295 | | |
| N, A, P type | | |
| KS / KEMA / KERI / GOST | | |
| LR, ABS, DNV, KR, BV, GL, RINA, NK | | |

※ Derating of the rated current is required according to the ambient temperature around the breaker in a panel if it is higher than the reference value. (See pages 123 to 126)

※ It is possible to connect power and load side reversely, but please use it for normal connection for maintenance and safety.