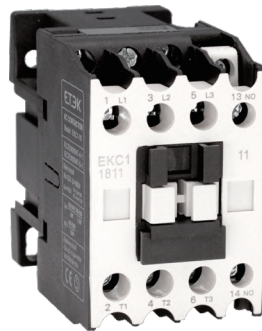




EKC1-0910



EKC1-1811



EKC1-2510

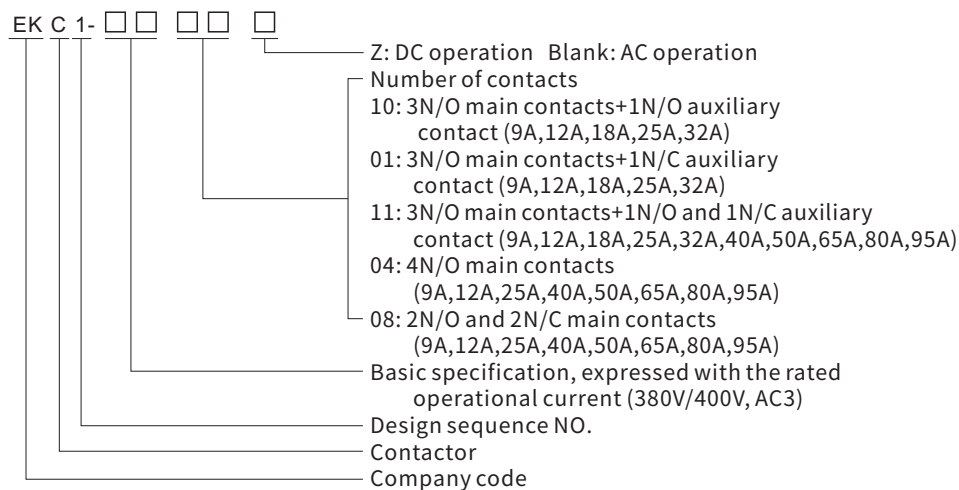
## Technical Data

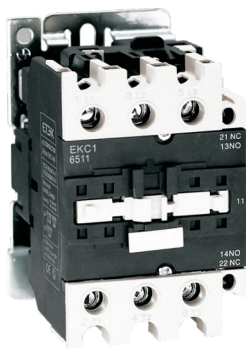
|             |                      |   |
|-------------|----------------------|---|
| Description | Application          | Remote making & breaking circuits<br>Protect circuit from over-load when assembling with thermal over-load relay<br>Frequent start-up and control of AC contactor |
|             | Electric value       | AC50/60Hz, 690V, up to 95A  |
|             | Utilization category | AC-3, AC-4  |
|             | Altitude             | ≤2000m  |
|             | Ambient temperature  | -5°C~+40°C  |
|             | Mounting category    | III   |
|             | Mounting conditions  | Inclination between the mounting plane and the vertical plane should not exceed ±5°   |
|             | Standard             | IEC/EN 60947-4-1. IEC/EN 60947-5-1.   |

|                   |            |         |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |
|-------------------|------------|---------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AC Coil Operation | Volts(VAC) | 24      | 36 | 42 | 48 | 110 | 127 | 220 | 230 | 240 | 380 | 415 | 440 | 480 | 500 | 600 |    |
|                   | Code       | 50Hz    | B5 | C5 | D5 | E5  | F5  | G5  | M5  | P5  | U5  | Q5  | N5  | R5  | -   | S5  | Y5 |
|                   |            | 60Hz    | B6 | -  | D6 | E6  | F6  | G6  | M6  | -   | U6  | Q6  | -   | R6  | T6  | -   | -  |
|                   |            | 50/60Hz | B7 | -  | D7 | E7  | F7  | -   | M7  | P7  | -   | Q7  | N7  | R7  | -   | -   | -  |

|                   |            |    |    |    |    |     |     |
|-------------------|------------|----|----|----|----|-----|-----|
| DC Coil Operation | Volts(VDC) | 12 | 24 | 36 | 48 | 110 | 220 |
|                   | Code       | JD | BD | CD | ED | FD  | MD  |

## Type Designation





EKC1-6511



EKC1-9511

## Technical Data

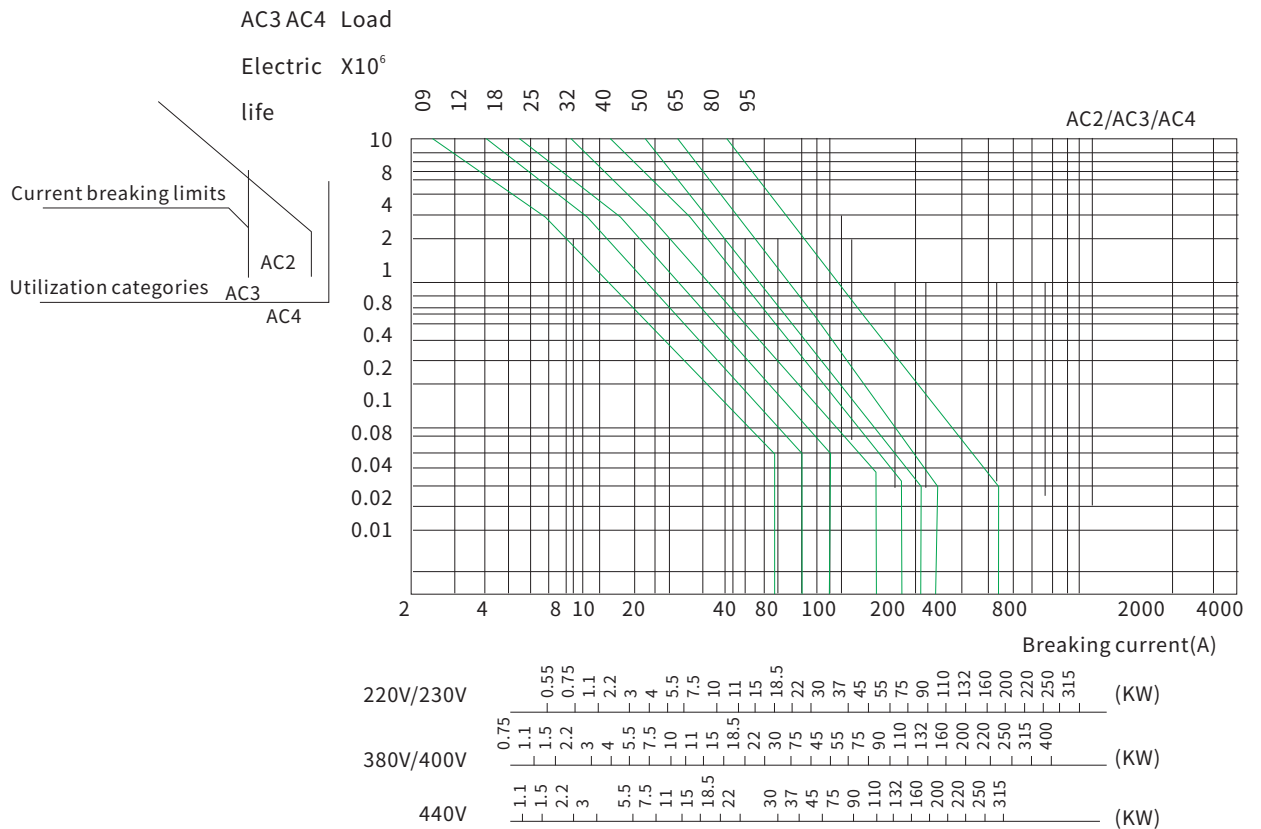
| Technical Specification  | Standard                | IEC/EN60947-4-1 IEC/EN60947-5-1 |         |         |         |         |
|--|-------------------------|---------------------------------|---------|---------|---------|---------|
|  |                         | EKC1-09                         | EKC1-12 | EKC1-18 | EKC1-25 | EKC1-32 |
| Model No.  |                         |                                 |         |         |         |         |
| Rated Conventional Heating Current   | I <sub>th</sub> (A)     | 20                              | 20      | 32      | 40      | 50      |
| Rated Voltage U <sub>i</sub> (V)   | U <sub>i</sub> (V)      | 690                             | 690     | 690     | 690     | 690     |
| Rated Operation Current<br>U <sub>e</sub> =380/415V  | AC-3 I <sub>e</sub> (A) | 9                               | 12      | 18      | 25      | 32      |
|  | AC-4 I <sub>e</sub> (A) | 3.5                             | 5       | 7.7     | 8.5     | 12      |
| Power Controlled<br>3ph cage Motor<br>AC-3   | 220/240V KW             | 2.2                             | 3       | 4       | 5.5     | 7.5     |
|  | 380/415V KW             | 4                               | 5.5     | 7.5     | 11      | 15      |
| Electrical life(x10 <sup>3</sup> operations)   | 660/690V KW             | 5.5                             | 7.5     | 10      | 15      | 18.5    |
|  | AC-3                    | 1000                            | 1000    | 1000    | 1000    | 800     |
| Mechanical life(x10 <sup>6</sup> operations)   | AC-4                    | 200                             | 200     | 200     | 200     | 200     |
|  |                         | 10                              | 10      | 10      | 10      | 8       |
| Matched Fuse   | Size                    | RT16-00                         | RT16-00 | RT16-00 | RT16-00 | RT16-00 |
|  | A                       | 20                              | 20      | 32      | 40      | 50      |
| Main circuit   |                         | 3P or 4P                        |         |         |         |         |
| Auxiliary circuit<br>Cat.:AC-15,U <sub>e</sub> =415V<br>I <sub>e</sub> =0.95A I <sub>th</sub> =10A |                         | 1NO / 1NC / 1NO + 1NC           |         |         |         |         |

| Standard   | Model No.               | IEC/EN60947-4-1 IEC/EN60947-5-1 |         |         |         |         |
|--|-------------------------|---------------------------------|---------|---------|---------|---------|
|  |                         | EKC1-40                         | EKC1-50 | EKC1-65 | EKC1-80 | EKC1-95 |
| Rated Conventional Heating Current   | I <sub>th</sub> (A)     | 60                              | 80      | 80      | 100     | 125     |
| Rated Voltage U <sub>i</sub> (V)   | U <sub>i</sub> (V)      | 690                             | 690     | 690     | 690     | 690     |
| Rated Operation Current<br>U <sub>e</sub> =380/415V  | AC-3 I <sub>e</sub> (A) | 40                              | 50      | 65      | 80      | 95      |
|  | AC-4 I <sub>e</sub> (A) | 18.5                            | 24      | 28      | 37      | 44      |
| Power Controlled<br>3ph cage Motor<br>AC-3   | 220/240V KW             | 11                              | 15      | 18.5    | 22      | 25      |
|  | 380/415V KW             | 18.5                            | 22      | 30      | 37      | 45      |
| Electrical life(x10 <sup>3</sup> operations)   | 660/690V KW             | 30                              | 33      | 37      | 45      | 45      |
|  | AC-3                    | 800                             | 600     | 600     | 600     | 600     |
| Mechanical life(x10 <sup>6</sup> operations)   | AC-4                    | 150                             | 150     | 150     | 100     | 100     |
|  |                         | 8                               | 8       | 8       | 6       | 6       |
| Matched Fuse   | Size                    | RT16-00                         | RT16-00 | RT16-00 | RT16-00 | RT16-00 |
|  | A                       | 63                              | 80      | 80      | 100     | 125     |
| Main circuit   |                         | 3P or 4P                        |         |         |         |         |
| Auxiliary circuit<br>Cat.:AC-15,U <sub>e</sub> =415V<br>I <sub>e</sub> =0.95A I <sub>th</sub> =10A |                         | 1NO + 1NC                       |         |         |         |         |

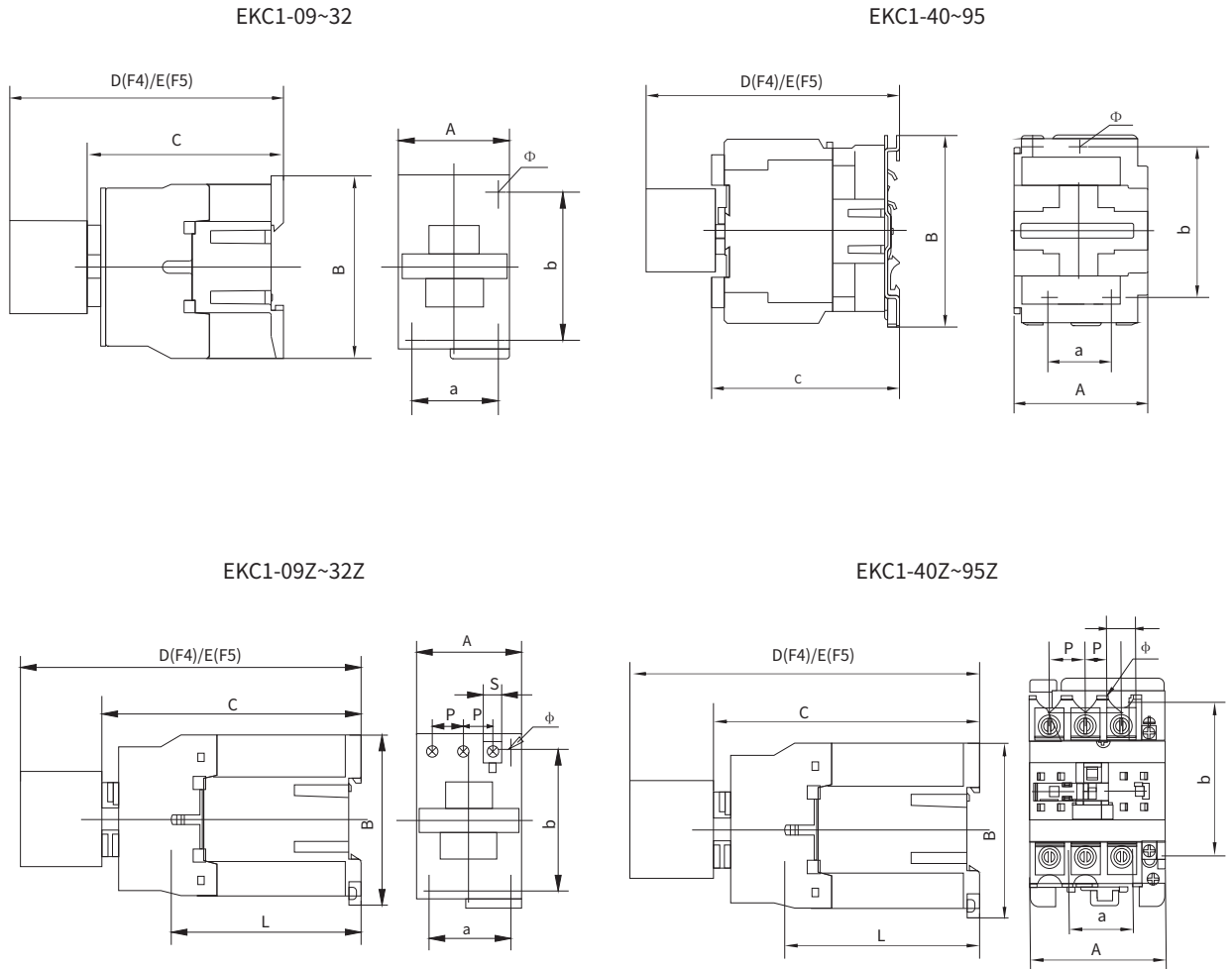
## Technical Information

| Terminal Connection | Model   | Cabling cross section(Cu) |   |  | Screw size | Tightening torque(N.m) |                                    |
|---------------------|---------|---------------------------|---|--|------------|------------------------|------------------------------------|
|                     |         | Number of piece           | Flexible cable with cold-pressed socket(mm <sup>2</sup> ) | Flexible cable without cold-pressed socket(mm <sup>2</sup> ) |            |                        | Inflexible cable(mm <sup>2</sup> ) |
|                     | EKC1-09 | 1~2                       | 2.5   | 4  | 4          | M3.5                   | 0.8                                |
|                     | EKC1-12 | 1~2                       | 2.5   | 4  | 4          | M3.5                   | 0.8                                |
|                     | EKC1-18 | 1~2                       | 4   | 6  | 6          | M3.5                   | 0.8                                |
|                     | EKC1-25 | 1                         | 4   | 10   | 6          | M4                     | 1.2                                |
|                     |         | 2                         | 4   | 6  | 6          | M4                     | 1.2                                |
|                     | EKC1-32 | 1                         | 4   | 10   | 6          | M4                     | 1.2                                |
|                     |         | 2                         | 4   | 6  | 6          | M4                     | 1.2                                |
|                     | EKC1-40 | 1                         | 10  | 16   | 10         | M4                     | 3.5                                |
|                     |         | 2                         | 10  | 10   | 10         | M8                     | 3.5                                |
|                     | EKC1-50 | 1                         | 16  | 25   | 25         | M8                     | 3.5                                |
|                     |         | 2                         | 16  | 16   | -          | M8                     | 3.5                                |
|                     | EKC1-65 | 1                         | 16  | 25   | 25         | M8                     | 3.5                                |
|                     |         | 2                         | 16  | 16   | -          | M8                     | 3.5                                |
|                     | EKC1-80 | 1                         | 50  | 50   | 50         | M8                     | 3.5                                |
|                     |         | 2                         | 25  | 35   | -          | M10                    | 4.0                                |
|                     | EKC1-95 | 1                         | 50  | 50   | 50         | M10                    | 4.0                                |
|                     |         | 2                         | 25  | 35   | -          | M10                    | 4.0                                |

### Curve



## Overall and Installation Dimension(mm)



**Note:**

1. L: in main circuit, the distance between terminals and plate;
2. P: in main circuit, the distance between two phases;
3. S: in main circuit, the width of contacting plate.

| Model                          | A Max | B Max | C Max    | D Max        | E Max        | a     | b       | φ   | L         | P    | S    |
|--------------------------------|-------|-------|----------|--------------|--------------|-------|---------|-----|-----------|------|------|
| EKC1-09(Z)~12(Z)               | 47    | 76    | 82(116)  | 125.5(160.5) | 140.5(174.5) | 34/35 | 50/60   | 4.5 | 60(95)    | 10.5 | 8.6  |
| EKC1-18(Z)                     | 47    | 76    | 87(122)  | 120.5(154.5) | 145.5(180.5) | 34/35 | 50/60   | 4.5 | 61(96)    | 11.3 | 10.4 |
| EKC1-25(Z)                     | 57    | 86    | 95(131)  | 133.5(169.5) | 153.5(189.5) | 40    | 48      | 4.5 | 70(107)   | 13.2 | 11.7 |
| EKC1-32(Z)                     | 57    | 86    | 100(138) | 138.5(176.5) | 158.5(196.5) | 40    | 48      | 4.5 | 71.6(120) | 14.5 | 13   |
| EKC1-4011(Z)~6511(Z)           | 77    | 129   | 116(173) | 154.5(211.5) | 174.5(231.5) | 40    | 100/110 | 6.5 | 78(135)   | 20   | 8.6  |
| EKC1-4004/4008(Z)~6504/6508(Z) | 84    | 129   | 116(173) | 154.5(211.5) | 174.5(231.5) | 40    | 100/110 | 6.5 | 78(135)   | 20   | 8.6  |
| EKC1-8011(Z)~9511(Z)           | 87    | 129   | 127(183) | 165.5(226.5) | 185.5(246.5) | 40    | 100/110 | 6.5 | 83(140)   | 23.5 | 12   |
| EKC1-8004/8008(Z)~9504/9508(Z) | 96    | 129   | 127(183) | 160.5(221.5) | 180.5(241.5) | 40    | 100/110 | 6.5 | 83(140)   | 23.5 | 12   |