

Induction Motor 120W(□ 90mm)

# 120W

Induction Motor  
120W(□ 90mm)

## Motor 사양

| Model           |                   | Output | Voltage | Frequency | Poles | Duty  | Starting Torque |       | Rated Load     |              |        |       | Capacitor  |
|-----------------|-------------------|--------|---------|-----------|-------|-------|-----------------|-------|----------------|--------------|--------|-------|------------|
|                 |                   |        |         |           |       |       | kgfcm           | N.m   | Speed<br>r/min | Current<br>A | Torque |       |            |
|                 |                   |        |         |           |       |       |                 |       |                |              | kgfcm  | N.m   |            |
| Lead Wire Type  | Terminal Box Type | W      | V       | Hz        |       |       |                 |       |                |              |        |       |            |
| 9ID◇1(A)–120F □ | 9ID◇1(A)–120F □–T | 120    | 1 ϕ 110 | 60        | 4     | Cont. | 6.50            | 0.650 | 1600           | 2.00         | 7.31   | 0.731 | 25.0 / 250 |
| 9ID◇2(D)–120F □ | 9ID◇2(D)–120F □–T | 120    | 1 ϕ 220 | 60        | 4     | Cont. | 6.20            | 0.620 | 1600           | 1.04         | 7.31   | 0.731 | 6.0 / 450  |
| 9ID◇E–120F □    | 9ID◇E–120F □–T    | 120    | 1 ϕ 220 | 50        | 4     | Cont. | 6.40            | 0.640 | 1250           | 0.90         | 9.35   | 0.935 | 6.0 / 450  |
|                 |                   |        | 1 ϕ 240 |           |       |       | 7.50            | 0.750 |                | 1.00         | 9.35   | 0.935 |            |
| 9ID◇3(G)–120F □ | 9ID◇3(G)–120F □–T | 120    | 3 ϕ 220 | 50        | 4     | Cont. | 24.40           | 2.440 | 1300           | 0.88         | 8.99   | 0.899 | –          |
|                 |                   |        |         | 60        |       |       | 20.00           | 2.000 | 1600           | 0.71         | 7.31   | 0.731 |            |
|                 |                   |        | 3 ϕ 230 | 50        | 4     | Cont. | 27.00           | 2.700 | 1350           | 0.86         | 8.66   | 0.866 |            |
|                 |                   |        |         | 60        |       |       | 21.70           | 2.170 | 1600           | 0.76         | 7.31   | 0.731 |            |
| 9ID◇4(K)–120F □ | 9ID◇4(K)–120F □–T | 120    | 3 ϕ 380 | 50        | 4     | Cont. | 24.30           | 2.430 | 1300           | 0.50         | 8.99   | 0.899 | –          |
|                 |                   |        |         | 60        |       |       | 19.90           | 1.990 | 1600           | 0.41         | 7.31   | 0.731 |            |
|                 |                   |        | 3 ϕ 400 | 50        | 4     | Cont. | 27.10           | 2.710 | 1350           | 0.49         | 8.66   | 0.866 |            |
|                 |                   |        |         | 60        |       |       | 21.90           | 2.190 | 1600           | 0.43         | 7.31   | 0.731 |            |
| 9ID◇5(L)–120F □ | 9ID◇5(L)–120F □–T | 120    | 3 ϕ 415 | 50        | 4     | Cont. | 24.30           | 2.430 | 1300           | 0.47         | 8.99   | 0.899 | –          |
|                 |                   |        |         | 60        |       |       | 19.90           | 1.990 | 1600           | 0.37         | 7.31   | 0.731 |            |
|                 |                   |        | 3 ϕ 440 | 50        | 4     | Cont. | 27.50           | 2.750 | 1350           | 0.47         | 8.66   | 0.866 |            |
|                 |                   |        |         | 60        |       |       | 22.20           | 2.220 | 1600           | 0.40         | 7.31   | 0.731 |            |

1) 모터 모델명 \* 자리에는 전압코드가 들어갑니다. 2) 모터 모델명 ◇ 자리에는 모터 출력축 타입명이 들어갑니다. (G: Gear Type / D: D-Cut Type / K: Key Type) Gear Type Shaft는 감속기 부착용이며 D-Cut 및 Key Type Shaft는 모터 단독 사용 시의 출력축입니다. 3) 모터 출력축 타입이 Gear Type일 경우, □ 안에는 부착되는 감속기의 모델 타입명이 들어갑니다. 4) 전압코드 A, D, E, G, K, L은 TP(Thermal Protector) 부착 사양입니다. 5) 상삼 380V~440V 모터에서는 인버터를 사용할 수 없습니다. 인버터 사용 시 권선의 절연이 열화되어 모터가 파손될 수 있습니다.

## 감속기 부착 시 최대허용토크

### 60Hz

| Motor Model | Gearbox Model      | 감속비 r/min    | 2            | 3            | 3.6          | 5            | 6            | 7.5          | 9            | 10           | 12.5         | 15           | 18           | 20             | 25             | 30             | 36             | 40             | 50             | 60             | 75             | 90             | 100            | 120            | 150            | 180            | 200            |
|-------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 9IDG*~120FP | 9PBK□BH<br>9PFK□BH | kgfcm<br>N.m | 11.8<br>1.16 | 17.8<br>1.74 | 21.3<br>2.09 | 29.6<br>2.90 | 35.5<br>3.48 | 44.4<br>4.35 | 53.3<br>5.22 | 59.2<br>5.80 | 66.7<br>6.53 | 80.0<br>7.84 | 96.0<br>9.41 | 106.7<br>10.45 | 120.5<br>11.81 | 144.6<br>14.17 | 173.6<br>17.01 | 192.9<br>18.90 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 |
| 9IDG*~120FH | 9HBK□BH<br>9HFK□BH | kgfcm<br>N.m | -<br>1.74    | 17.8<br>2.09 | 21.3<br>2.09 | 29.6<br>2.90 | 35.5<br>3.48 | 44.4<br>4.35 | 53.3<br>5.22 | 59.2<br>5.80 | 66.7<br>6.53 | 80.0<br>7.84 | 96.0<br>9.41 | 106.7<br>10.45 | 120.5<br>11.81 | 144.6<br>14.17 | 173.6<br>17.01 | 192.9<br>18.90 | 241.1<br>23.62 | 289.3<br>28.35 | 300.0<br>29.40 | 300.0<br>29.40 | 300.0<br>29.40 | 300.0<br>29.40 | 300.0<br>29.40 | 300.0<br>29.40 | 300.0<br>29.40 |

| Motor Model | Gearbox Model           | 감속비<br>r/min | 10           | 12           | 15           | 18           | 25             | 30             | 36             | 50             | 60             |
|-------------|-------------------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|
| 9IDG*~120FW | 9WD □ BL / □ BR / □ BRL | kgfcm<br>N.m | 59.9<br>5.87 | 70.1<br>6.87 | 84.4<br>8.27 | 97.3<br>9.54 | 127.8<br>12.53 | 144.6<br>14.17 | 153.1<br>15.00 | 142.9<br>14.00 | 122.4<br>12.00 |

| Motor Model  | Gearbox Model | 감속비<br>r/min | 5            | 7.5          | 10           | 15           | 20           | 25           | 30             | 40             | 50             | 60             | 80             |
|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|
| 9IDG*~120FWH | 9WHD □ -030   | kgfcm<br>N.m | 25.4<br>2.49 | 36.8<br>3.61 | 47.3<br>4.64 | 66.6<br>6.53 | 84.2<br>8.25 | 96.4<br>9.45 | 112.2<br>11.00 | 137.9<br>13.52 | 157.8<br>15.46 | 163.3<br>16.00 | 132.7<br>13.00 |

| Motor Model  | Gearbox Model | 감속비 r/min    | 15           | 20             | 25             | 30             | 40             | 50             | 60             | 80             | 100            | 120            | 160            | 200              | 225              | 240              |
|--------------|---------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|------------------|------------------|
| 9IDG*~120FHC | 9HC□-◇        | kgfcm<br>N.m | 80.0<br>7.84 | 106.7<br>10.45 | 133.3<br>13.06 | 160.0<br>15.68 | 213.3<br>20.90 | 266.6<br>26.13 | 320.0<br>31.36 | 426.6<br>41.81 | 533.3<br>52.26 | 639.9<br>62.71 | 853.2<br>83.62 | 1066.5<br>104.52 | 1199.8<br>117.58 | 1279.8<br>125.42 |

### 50Hz

| Motor Model | Gearbox Model          | 감속비<br>r/min | 2            | 3            | 3.6          | 5            | 6            | 7.5          | 9            | 10           | 12.5         | 15           | 18             | 20             | 25             | 30             | 36             | 40             | 50             | 60             | 75             | 90             | 100            | 120            | 150            | 180            | 200            |
|-------------|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 9IDG*~120FP | 9PBK □ BH<br>9PFK □ BH | kgfcm<br>N,m | 14.0<br>1.37 | 21.0<br>2.06 | 25.2<br>2.47 | 35.1<br>3.44 | 42.1<br>4.12 | 52.6<br>5.15 | 63.1<br>6.19 | 70.1<br>6.87 | 79.0<br>7.74 | 94.8<br>9.29 | 113.8<br>11.15 | 126.4<br>12.39 | 142.9<br>14.00 | 171.4<br>16.80 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 | 200.0<br>19.60 |
| 9IDG*~120FH | 9HBK □ BH<br>9HFK □ BH | kgfcm<br>N,m | -<br>2.06    | 21.0<br>2.47 | 25.2<br>2.47 | 35.1<br>3.44 | 42.1<br>4.12 | 52.6<br>5.15 | 63.1<br>6.19 | 70.1<br>6.87 | 79.0<br>7.74 | 94.8<br>9.29 | 113.8<br>11.15 | 126.4<br>12.39 | 142.9<br>14.00 | 171.4<br>16.80 | 205.7<br>20.16 | 228.6<br>22.40 | 285.7<br>28.00 | 300.0<br>29.40 | 300.0<br>29.40 | 300.0<br>29.40 | 300.0<br>29.40 | 300.0<br>29.40 | 300.0<br>29.40 | 300.0<br>29.40 | 300.0<br>29.40 |

| Motor Model | Gearbox Model      | 감속비<br>r/min | 10           | 12           | 15            | 18             | 25             | 30             | 36             | 50             | 60             |
|-------------|--------------------|--------------|--------------|--------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 9IDG*~120FW | 9WD □BL/ □BR/ □BRL | kgfcm<br>N.m | 71.0<br>6.96 | 83.1<br>8.15 | 100.0<br>9.80 | 115.3<br>11.30 | 151.5<br>14.85 | 170.0<br>16.66 | 153.1<br>15.00 | 142.9<br>14.00 | 122.4<br>12.00 |

| Motor Model  | Gearbox Model | 감속비<br>r/min | 5            | 7.5          | 10           | 15           | 20           | 25             | 30             | 40             | 50             | 60             | 80             |
|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 9IDG*~120FWH | 9WHD □-030    | kgfcm<br>N.m | 30.1<br>2.95 | 43.6<br>4.28 | 56.1<br>5.50 | 79.0<br>7.74 | 99.7<br>9.77 | 114.3<br>11.20 | 133.0<br>13.03 | 163.5<br>16.02 | 173.5<br>17.00 | 163.3<br>16.00 | 132.7<br>13.00 |

| Motor Model  | Gearbox Model | 감속비 r/min    | 15           | 20             | 25             | 30             | 40             | 50             | 60             | 80             | 100            | 120            | 160             | 200              | 225              | 240              |
|--------------|---------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------------|------------------|
| 9IDG*~120FHC | 9HC□-◇        | kgfcm<br>N.m | 94.8<br>9.29 | 126.4<br>12.39 | 158.0<br>15.48 | 189.6<br>18.58 | 252.8<br>24.78 | 316.0<br>30.97 | 379.2<br>37.16 | 505.6<br>49.55 | 632.0<br>61.94 | 758.4<br>74.33 | 1011.2<br>99.10 | 1264.0<br>123.88 | 1422.0<br>139.36 | 1516.8<br>148.65 |

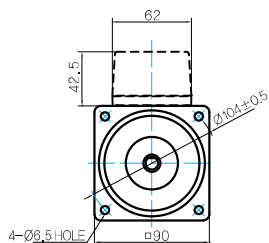
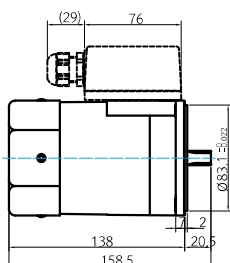
1) 모터 모델명 \* 자리에는 전압코드가 들어갑니다. 2) 감속기 모델명 □ 안에는 감속비가 들어갑니다. 3) 위의 표에서 색칠된 범위의 감속비를 선택했을 때 감속기의 출력축은 모터의 출력축과 같은 방향으로 회전합니다. 흰색 바탕 범위의 감속비에서는 감속기 출력축은 모터 출력축의 회전방향과 반대방향으로 회전합니다.  
4) 회전속도(r/min)는 모터의 동기회전속도(50Hz: 1500r/min, 60Hz: 1800r/min)를 감속비로 나누어 계산합니다. 실제 회전속도는 부하의 크기에 따라 표시보다 2~20% 정도 느립니다.

# Induction Motor 120W(□ 90mm)

## Dimensions

### MOTOR ONLY

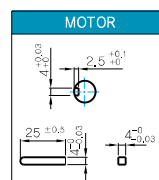
- MOTOR MODEL:  
9IDD□-120F(-T) (GENERAL FAN)



- MOTOR OUTPUT SHAFT

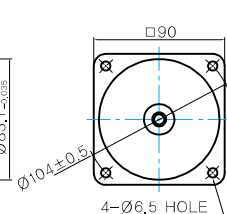
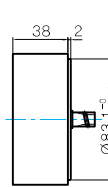
| MODEL      | SPEC                                                                                                                      |
|------------|---------------------------------------------------------------------------------------------------------------------------|
| D-CUT TYPE | 37<br>30 <sup>+0.2</sup> <sub>-0.2</sub><br>11.5 <sup>+0.1</sup> <sub>-0.1</sub><br>Ø27 <sup>+0.03</sup> <sub>-0.03</sub> |
| KEY TYPE   | 37<br>25 <sup>+0.2</sup> <sub>-0.2</sub><br>Ø27 <sup>+0.03</sup> <sub>-0.03</sub>                                         |
| 9IDD□-120F |                                                                                                                           |
| 9IDK□-120F |                                                                                                                           |

- KEY SPEC



### 중간감속기

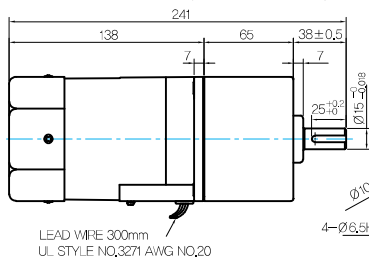
- MODEL:  
9XD10□□



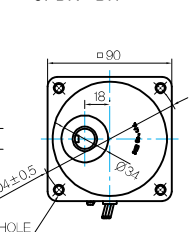
## GEARED MOTOR

### P TYPE GEARBOX

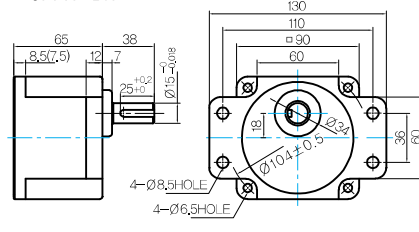
- MOTOR MODEL:  
9IDG□-120FP (GENERAL FAN)



- GEARBOX MODEL:  
9PBK□BH



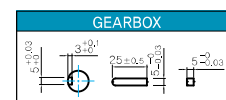
- GEARBOX MODEL:  
9PFK□BH



- GEARBOX OUTPUT SHAFT

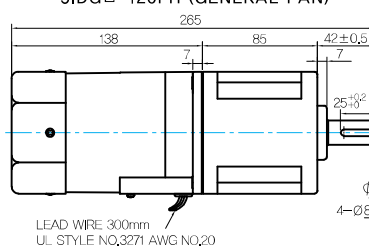
| MODEL    | SPEC                                                                              |
|----------|-----------------------------------------------------------------------------------|
| KEY TYPE | 38<br>25 <sup>+0.2</sup> <sub>-0.2</sub><br>Ø15 <sup>+0.03</sup> <sub>-0.03</sub> |
| 9PBK□BH  |                                                                                   |
| 9PFK□BH  |                                                                                   |

- KEY SPEC

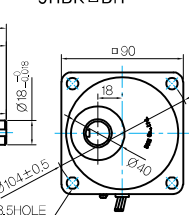


### H TYPE GEARBOX

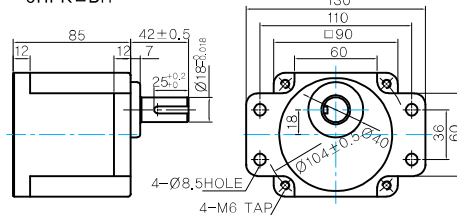
- MOTOR MODEL:  
9IDG□-120FH (GENERAL FAN)



- GEARBOX MODEL:  
9HBK□BH



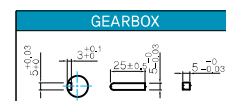
- GEARBOX MODEL:  
9HFK□BH



- GEARBOX OUTPUT SHAFT

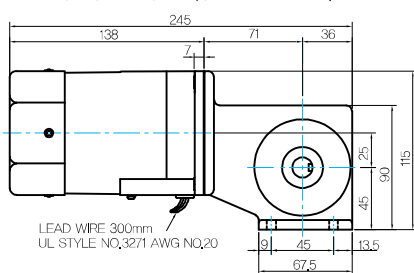
| MODEL    | SPEC                                                                              |
|----------|-----------------------------------------------------------------------------------|
| KEY TYPE | 42<br>25 <sup>+0.2</sup> <sub>-0.2</sub><br>Ø15 <sup>+0.03</sup> <sub>-0.03</sub> |
| 9HBK□BH  |                                                                                   |
| 9HFK□BH  |                                                                                   |

- KEY SPEC

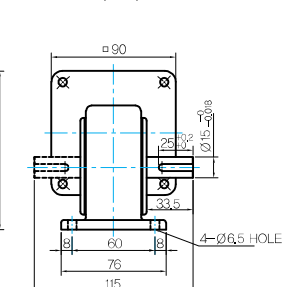


### W TYPE GEARBOX

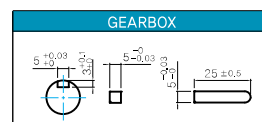
- MOTOR MODEL:  
9IDG□-120FW (GENERAL FAN)



- GEARBOX MODEL:  
9WD□BL/BR/BRL



- KEY SPEC



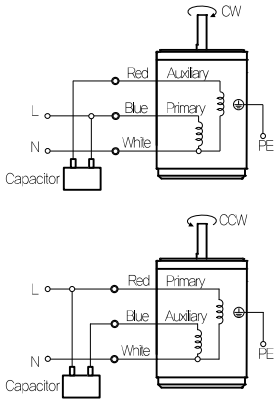
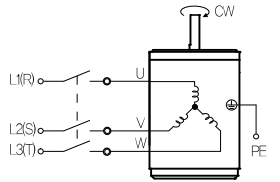
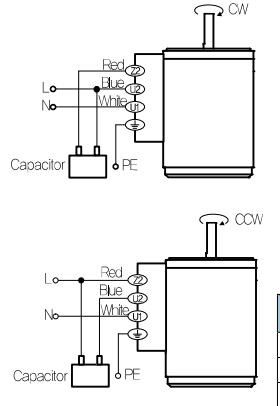
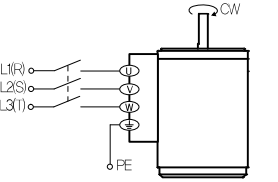


## Induction Motor 120W( □ 90mm)

### Motor Images

| 9IDD □ -120F                                                                       | 9IDD □ -120F-T                                                                    | 9IDG □ -120FP+9PBK □ BH                                                            | 9IDG □ -120FP+9PFK □ BH                                                             |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|   |  |  |  |
| 9IDG □ -120FH+9HBK □ BH                                                            | 9IDG □ -120FH+9HFK □ BH                                                           | 9IDG □ -120FW+9WD □ BL                                                             | 9IDG □ -120FWH+9WHD □ -030                                                          |
|   |  |  |  |
| 9IDG □ -120FHC+9HC □ □                                                             |                                                                                   |                                                                                    |                                                                                     |
|  |                                                                                   |                                                                                    |                                                                                     |

### 결선도

| Lead Wire Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | Terminal Box Type |       |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |   |   |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|-------|---|-------|--|--|--|-------------------------|-------|-----|-------|----------------------|-------|------|-------|----------------------|-------|--------|-------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---|---|---|-------|--|--|--|-------------------------|-------|-----|-------|----------------------|-------|------|-------|----------------------|-------|--------|-------|--|
| <p>[단상]</p>  <p>[삼상]</p>  <p>• 반시계(CCW)방향:<br/>R, S, T 중 2선을 변경하면<br/>반시계 방향으로 회전합니다.</p> <table border="1"> <thead> <tr> <th>LEAD WIRE</th><th>U</th><th>V</th><th>W</th></tr> </thead> <tbody> <tr> <td>INPUT</td><td></td><td></td><td></td></tr> <tr> <td>3 φ 200V~230V (3, G, J)</td><td>WHITE</td><td>RED</td><td>BLACK</td></tr> <tr> <td>3 φ 380V~400V (4, K)</td><td>WHITE</td><td>BLUE</td><td>BLACK</td></tr> <tr> <td>3 φ 415V~440V (5, L)</td><td>WHITE</td><td>YELLOW</td><td>BLACK</td></tr> </tbody> </table> | LEAD WIRE | U                 | V     | W | INPUT |  |  |  | 3 φ 200V~230V (3, G, J) | WHITE | RED | BLACK | 3 φ 380V~400V (4, K) | WHITE | BLUE | BLACK | 3 φ 415V~440V (5, L) | WHITE | YELLOW | BLACK |  | <p>[단상]</p>  <p>[삼상]</p>  <p>• 반시계(CCW)방향:<br/>R, S, T 중 2선을 변경하면<br/>반시계 방향으로 회전합니다.</p> <table border="1"> <thead> <tr> <th>LEAD WIRE</th><th>U</th><th>V</th><th>W</th></tr> </thead> <tbody> <tr> <td>INPUT</td><td></td><td></td><td></td></tr> <tr> <td>3 φ 200V~230V (3, G, J)</td><td>WHITE</td><td>RED</td><td>BLACK</td></tr> <tr> <td>3 φ 380V~400V (4, K)</td><td>WHITE</td><td>BLUE</td><td>BLACK</td></tr> <tr> <td>3 φ 415V~440V (5, L)</td><td>WHITE</td><td>YELLOW</td><td>BLACK</td></tr> </tbody> </table> | LEAD WIRE | U | V | W | INPUT |  |  |  | 3 φ 200V~230V (3, G, J) | WHITE | RED | BLACK | 3 φ 380V~400V (4, K) | WHITE | BLUE | BLACK | 3 φ 415V~440V (5, L) | WHITE | YELLOW | BLACK |  |
| LEAD WIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | U         | V                 | W     |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |   |   |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |
| INPUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                   |       |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |   |   |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |
| 3 φ 200V~230V (3, G, J)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WHITE     | RED               | BLACK |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |   |   |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |
| 3 φ 380V~400V (4, K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | WHITE     | BLUE              | BLACK |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |   |   |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |
| 3 φ 415V~440V (5, L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | WHITE     | YELLOW            | BLACK |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |   |   |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |
| LEAD WIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | U         | V                 | W     |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |   |   |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |
| INPUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                   |       |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |   |   |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |
| 3 φ 200V~230V (3, G, J)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WHITE     | RED               | BLACK |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |   |   |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |
| 3 φ 380V~400V (4, K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | WHITE     | BLUE              | BLACK |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |   |   |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |
| 3 φ 415V~440V (5, L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | WHITE     | YELLOW            | BLACK |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |   |   |   |       |  |  |  |                         |       |     |       |                      |       |      |       |                      |       |        |       |  |

1) 회전방향은 모터 축 측에서 본 방향을 나타냅니다.

2) CW는 시계방향, CCW는 반시계방향입니다.

3) 단상 모터의 회전방향 전환은 모터 정지 후에 실시하여 주십시오. 모터 회전 중에 회전방향을 전환하면 방향이 전환되지 않거나 시간이 지체되어 전환되는 경우가 있습니다.