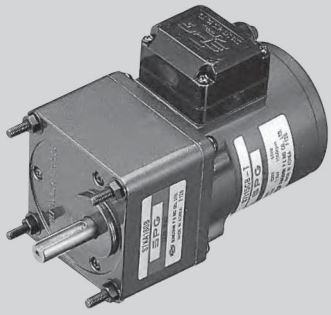


# 15W

## INDUCTION MOTOR, REVERSIBLE MOTOR
## □70㎜ TERMINAL BOX TYPE

### INDUCTION MOTOR - CONTINUOUS RATING

| SIZE mm sq. | Type | Poles | Output | Voltage | Frequency | Duty | Rated Load | | | | Starting Torque | | Capacitor |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Current | Speed | Torque | | | | |
| | | | (W) | (V) | (Hz) | | (A) | (rpm) | (kg-cm) | (N-m) | (kg-cm) | (N-m) | (uF) |
| 70 | S7I15GA-T | 4 | 15 | 1Ø 110 | 60 | Cont. | 0.34 | 1600 | 1.00 | 0.100 | 1.10 | 0.110 | 5.0 |
| | S7I15GB-T | 4 | 15 | 1Ø 220 | 60 | Cont. | 0.19 | 1550 | 1.10 | 0.110 | 1.10 | 0.110 | 1.2 |
| | S7I15GC-T | 4 | 15 | 1Ø 100 | 50 | Cont. | 0.35 | 1250 | 1.20 | 0.120 | 0.90 | 0.090 | 5.0 |
| | | | | | 60 | | 0.34 | 1550 | 1.00 | 0.100 | | | |
| | S7I15GD-T | 4 | 15 | 1Ø 200 | 50 | Cont. | 0.19 | 1200 | 1.25 | 0.125 | 0.90 | 0.090 | 1.2 |
| | | | | | 60 | | 0.18 | 1500 | 1.20 | 0.120 | | | |
| | S7I15GX-T | 4 | 15 | 1Ø 220 | 50 | Cont. | 0.16 | 1200 | 1.25 | 0.125 | 0.75 | 0.075 | 0.9 |
| | S7I15GX-TCE | | | 1Ø 240 | | | 0.18 | | 1.35 | 0.135 | 0.90 | 0.090 | |

❖ 기종명 맨 끝자리에 CE가 명기된 MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오. (CE marked at the end of the model name indicates that it is thermally protected type which has received CE with built-in TP.)
또한 기종명 S7I15GX-T는 TP가 내장된 THERMALLY PROTECTED TYPE입니다. (TP marked at the end of the modelname indicates that it is standard motor with Thermal Protector mounted. S7I15GX-T is thermally protected type with TP mounted.)

❖ 'L' Type 전용으로 기종명에 표시하지 않습니다. ("L" or "H" type does not apply to motors under 40W.)

### REVERSIBLE MOTOR - 30MINUTES RATING

| SIZE mm sq. | Type | Poles | Output | Voltage | Frequency | Duty | Rated Load | | | | Starting Torque | | Capacitor |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Current | Speed | Torque | | | | |
| | | | (W) | (V) | (Hz) | | (A) | (rpm) | (kg-cm) | (N-m) | (kg-cm) | (N-m) | (uF) |
| 70 | S7R15GA-T<br>S7R15GA-T(TP)<br>S7R15GA-TCE | 4 | 15 | 1Ø 110 | 60 | 30min. | 0.44 | 1550 | 1.0 | 0.100 | 1.10 | 0.110 | 6.0 |
| | S7R15GB-T<br>S7R15GB-T(TP)<br>S7R15GB-TCE | 4 | 15 | 1Ø 220 | 60 | 30min. | 0.22 | 1550 | 1.0 | 0.100 | 1.10 | 0.110 | 1.5 |
| | S7R15GC-T<br>S7R15GC-T(TP)<br>S7R15GC-TCE | 4 | 15 | 1Ø 100 | 50 | 30min. | 0.42 | 1200 | 1.25 | 0.125 | 0.90 | 0.090 | 6.0 |
| | | | | | 60 | | | 1500 | 1.0 | 0.100 | | | |
| | S7R15GD-T<br>S7R15GD-T(TP)<br>S7R15GD-TCE | 4 | 15 | 1Ø 200 | 50 | 30min. | 0.21 | 1200 | 1.25 | 0.125 | 0.90 | 0.090 | 1.5 |
| | | | | | 60 | | | 1500 | 1.0 | 0.100 | | | |
| | S7R15GE-T<br>S7R15GE-TCE | 4 | 15 | 1Ø 100 | 50 | 30min. | 0.37 | 1200 | 1.25 | 0.125 | 0.95 | 0.095 | 6.0 |
| | | | | | 60 | | 0.41 | 1500 | 1.0 | 0.100 | | | |
| | | | | 1Ø 115 | 60 | | 0.35 | 1550 | 1.0 | 0.100 | | | 4.5 |
| | S7R15GX-T<br>S7R15GX-TCE | 4 | 15 | 1Ø 220 | 50 | 30min. | 0.17 | 1200 | 1.25 | 0.125 | 0.9 | 0.090 | 1.2 |
| | | | | 1Ø 240 | | | 0.18 | | 1.45 | 0.145 | 1.1 | 0.110 | |

❖ 기종명 S7R15GE-T는 사용하는 전압 사양에 따라 CONDENSER 용량이 다르게 사용되므로 사용전압에 맞게 CONDENSER용량을 바르게 사용하여 주십시오. 고장의 원인이 됩니다.
주문시 사용전압을 제시하여 주십시오. 제시가 없으면 115V용 CONDENSER로 포장 출하됩니다. (Appropriate capacitors shall be used according to the voltage for S7R15GE-T type since the size of the capacitor differs by different voltages. Malfunction may occur when not used properly. Capacitor for 115V will be delivered otherwise the required voltage is informed.)

❖ 기종명 맨 끝자리에 CE가 명기된 MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오. S7R15GE-TCE는 115V용 사양으로만 출하됩니다. (CE marked at the end of the model name indicates that it is thermally protected type which has received CE. S7R15GE-TCE is available only for 115V specification.)

❖ 기종명 맨 끝자리에 TP가 명기된 MODEL은 일반 MOTOR의 TP가 내장된 THERMALLY PROTECTED TYPE입니다. 또한 기종명 S7R15GE-T, S7R15GX-T는 TP가 내장된 THERMALLY PROTECTED TYPE입니다. (TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted. S7R15GE-T, S7R15GX-T is thermally protected type with TP mounted.)

❖ 본 DATA는 BRAKE BLOCK을 MOTOR에 장착된 상태에서 측정한 DATA입니다. (Above data is measured with friction brake mounted.)

❖ 'L' Type 전용으로 기종명에 표시하지 않습니다. ("L" or "H" type does not apply to motors under 40W.)

## 50Hz

| MODEL \ GEAR RATIO | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | rpm | 500 | 416 | 300 | 250 | 200 | 166 | 150 | 120 | 100 | 83 | 75 | 60 | 50 | 41 | 37 | 30 | 25 | 20 | 16 | 15 | 12 | 10 | 8 | 7.5 |
| S7KA□B | kg-cm | 3.2 | 3.9 | 5.4 | 6.5 | 8.1 | 9.7 | 10.8 | 13.5 | 16.2 | 19.4 | 19.4 | 24.2 | 29.1 | 34.9 | 38.8 | 43.6 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| | N·m | 0.314 | 0.382 | 0.530 | 0.637 | 0.794 | 0.951 | 1.059 | 1.324 | 1.587 | 1.902 | 1.902 | 2.373 | 2.854 | 3.423 | 3.805 | 4.276 | 4.900 | 4.900 | 4.900 | 4.900 | 4.900 | 4.900 | 4.900 | 4.900 |

## 60Hz

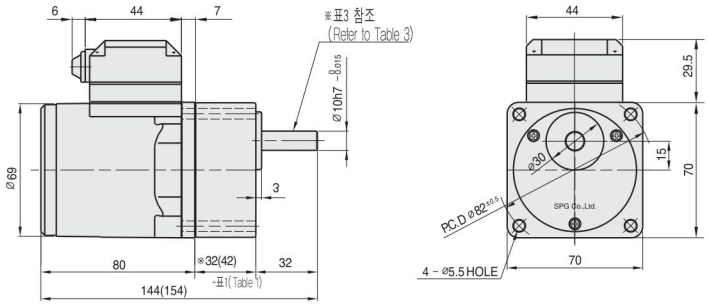
| MODEL \ GEAR RATIO | | 3 | 3.6 | 5 | 6 | 7.5 | 9 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 90 | 100 | 120 | 150 | 180 | 200 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | rpm | 600 | 500 | 360 | 300 | 240 | 200 | 180 | 144 | 120 | 100 | 90 | 72 | 60 | 50 | 45 | 36 | 30 | 24 | 20 | 18 | 15 | 12 | 10 | 9 |
| S7KA□B | kg-cm | 3.0 | 3.6 | 5.1 | 6.1 | 7.6 | 9.1 | 10.1 | 12.7 | 15.2 | 18.2 | 18.2 | 22.8 | 27.3 | 32.8 | 36.5 | 41.0 | 49.2 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| | N·m | 0.294 | 0.353 | 0.500 | 0.598 | 0.745 | 0.892 | 0.990 | 1.245 | 1.491 | 1.785 | 1.785 | 2.236 | 2.677 | 3.217 | 3.579 | 4.021 | 4.825 | 4.900 | 4.900 | 4.900 | 4.900 | 4.900 | 4.900 | 4.900 |

❖ GEAR HEAD 품명중 □은 감속비를 표시합니다. (The code in □ of gearhead model is for gear ratio.)
❖ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다. (It is the permissible torque of the assembled motor and gearhead.)
❖ 감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 50㎏-㎝입니다. (The permissible torque of the motor and inter-decimal gearhead is 50 kg-cm.)
❖ 회전방향은 ■색이 MOTOR의 회전방향과 동일방향이고, 기타는 MOTOR 회전방향과 반대방향입니다. (■ color indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. Others indicate rotation in the opposite direction.)
❖ 회전수는 MOTOR의 동기 회전수(50Hz : 1500rpm, 60Hz : 1800rpm)를 기준으로 하여 감속비로 나누어서 계산하였습니다. 실제의 회전수는 부하의 크기에 따라서 표시된 수치보다 2~20% 적습니다. (Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio. The actual rotation speed can be 2~20% less than displayed value depending on the load.)
❖ 'L' Type 전용으로 기종명에 표시하지 않습니다. ("L" or "H" type does not apply to motors under 40W.)

# DIMENSIONS

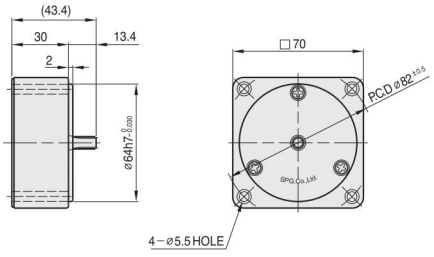
## GEARED MOTOR

※MOTOR MODEL : S7(I,R)15G□-T
※HEAD MODEL : S7□A3□~S7□A200□



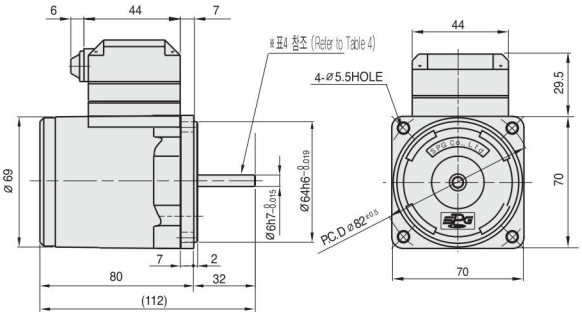

## NTER-DECIMAL GEAR HEAD

※MODEL : S7GX10B




## MOTOR

※MOTOR MODEL : S7(I,R)15□□-T




## ※32(42) - (표1 (Table1))

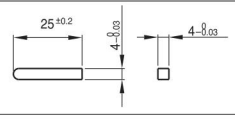
| GEAR RATIO | SIZE(mm) |
|---|---|
| S7□A3□ ~ S7□A18□ | 32 |
| S7□A20□ ~ S7□A200□ | 42 |

## WEIGHT - (표2 (Table2))

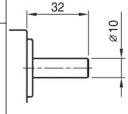
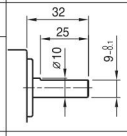
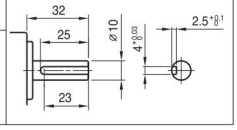
| PART | | WEIGHT(kg) |
|---|---|---|
| MOTOR | | 1.10 |
| DECIMAL GEAR HEAD | | 1.11 |
| GEAR HEAD | S7□A3□ ~S7□A18□ | 0.38 |
| | S7□A20□ ~S7□A40□ | 0.47 |
| | S7□A50□ ~S7□A250□ | 0.52 |

## KEY SPEC

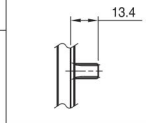
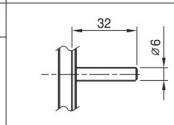
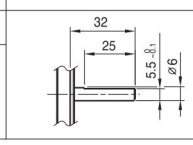
GEAR HEAD




## GEAR HEAD 출력축 사양 (SPEC for output shaft of gearhead) - (표3 (Table3))

| MODEL | 출력축 구분 (TYPES OF OUTPUT SHAFT) |
|---|---|
| STRAIGHT TYPE<br>S7SA3□ ~S7SA200□ |  |
| D-CUT TYPE<br>S7DA3□ ~S7DA200□ |  |
| KEY TYPE<br>S7KA3□ ~S7KA200□ |  |

## MOTOR 출력축 사양 (SPEC for output shaft of motor) - (표4 (Table4))

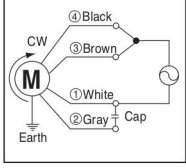
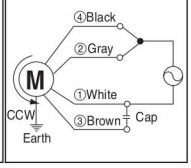
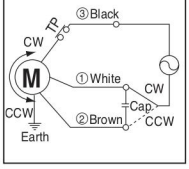
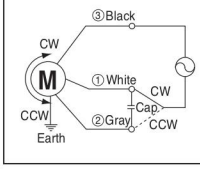
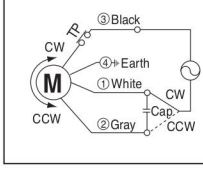
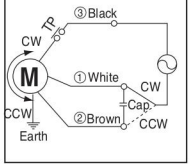
| MODEL | 출력축 구분 (TYPES OF OUTPUT SHAFT) |
|---|---|
| GEAR TYPE<br>S7(I,R)15G□-T |  |
| STRAIGHT TYPE<br>S7(I,R)15S□-T |  |
| D-CUT TYPE<br>S7(I,R)15D□-T |  |

# SCHEMATIC DIAGRAMS

회전방향은 MOTOR의 SHAFT 끝쪽에서 볼 때의 회전방향입니다. 원안의 번호는 TERMINAL BOX 내의 단자 번호입니다. (The direction of motor rotation is as viewed from the front shaft end of the motor. Circled number is the terminal number inside terminal box.)

■ INDUCTION MOTOR

■ REVERSIBLE MOTOR

| INDUCTION MOTOR | | | REVERSIBLE MOTOR | | |
|---|---|---|---|---|---|
| S7I15GA-T S7I15GB-T<br>S7I15GC-T S7I15GD-T | | S7I15GX-TCE<br>S7I15GX-T | S7R15GA-T S7R15GB-T<br>S7R15GC-T S7R15GD-T | S7R15GA-TCE S7R15GB-TCE<br>S7R15GC-TCE S7R15GD-TCE<br>S7R15GE-T S7R15GE-TCE | S7R15GX-TCE<br>S7R15GX-T |
| **CW** | **CCW** | **CW,CCW** | **CW,CCW** | **CW,CCW** | **CW,CCW** |
|  |  |  |  |  |  |



주의 : INDUCTION MOTOR 회전방향의 교환은 MOTOR가 완전히 정지한 후에 실시하여 주십시오. MOTOR가 회전 중에 회전방향을 교환할 경우 회전방향이 바뀌지 않거나, 회전방향이 바뀌어지는 데 있어서 시간이 걸리는 수도 있습니다. (Change the direction of motor rotation only after the motor stops completely. If an attempt is made to change the direction of rotation while the motor is running, the motor may ignore the reversing command or change its direction of rotation after some delay.)