

# 6W

E · S MOTOR □60㎜ LEAD WIRE TYPE

## SPECIFICATION OF SR TYPE SPEED CONTROL MOTORS

| SIZE mm sq. | Motor Type | Controller Type | Poles | Output | Voltage | Freq. | Duty | Speed Range | Permissible Torque at 1200rpm | | Permissible Torque at 90rpm | | Starting Torque | | Cap. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | (W) | (V) | (Hz) | | (rpm) | (kg-cm) | (N-m) | (kg-cm) | (N-m) | (kg-cm) | (N-m) | (μF) |
| 60 | S6R06GA-ES12<br>S6R06GA-ES12CE | SRA01<br>SRA01CE | 4 | 6 | 1Ø 110 | 60 | 30min. | 90-1700 | 0.62 | 0.062 | 0.45 | 0.045 | 0.55 | 0.055 | 3.0 |
| | S6R06GB-ES12<br>S6R06GB-ES12CE | SRB01<br>SRB01CE | 4 | 6 | 1Ø 220 | 60 | 30min. | 90-1700 | 0.62 | 0.062 | 0.45 | 0.045 | 0.55 | 0.055 | 0.8 |
| | S6R06GC-ES12<br>S6R06GC-ES12CE | SRC01<br>SRC01CE | 4 | 6 | 1Ø 100 | 50 | 30min. | 90-1400 | 0.56 | 0.056 | 0.38 | 0.038 | 0.50 | 0.050 | 3.0 |
| | | | | | | 60 | | 90-1700 | | | | | | | |
| | S6R06GD-ES12<br>S6R06GD-ES12CE | SRD01<br>SRD01CE | 4 | 6 | 1Ø 200 | 50 | 30min. | 90-1400 | 0.55 | 0.055 | 0.38 | 0.038 | 0.50 | 0.050 | 0.8 |
| | | | | | | 60 | | 90-1700 | | | | | | | |
| | S6R06GX-ES12<br>S6R06GX-ES12CE | SRX01<br>SRX01CE | 4 | 6 | 1Ø 220 | 50 | 30min. | 90-1400 | 0.47 | 0.047 | 0.38 | 0.038 | 0.45 | 0.045 | 0.7 |
| | | | | | 1Ø 240 | | | | 0.52 | 0.052 | 0.38 | 0.038 | 0.52 | 0.052 | |

❖ 기종명 맨 끝자리에 CE가 명기된 MOTOR MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오. (CE marked at the end of motor model name indicates that it is thermally protected type which has received CE.)

❖ 기종명 맨 끝자리에 CE가 명기된 SR TYPE CONTROLLER MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오. (SR type controller model with "CE" appeared at the end of motor model name indicates that the product acquired CE MARK certification. )

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

## SPECIFICATION OF SOCKET SS TYPE SPEED CONTROL MOTORS

| SIZE mm sq. | Motor Type | Controller Type | Poles | Output | Voltage | Freq. | Duty | Speed Range | Permissible Torque at 1200rpm | | Permissible Torque at 90rpm | | Starting Torque | | Cap. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | (W) | (V) | (Hz) | | (rpm) | (kg-cm) | (N-m) | (kg-cm) | (N-m) | (kg-cm) | (N-m) | (μF) |
| 60 | S6R06GA-ES24<br>S6R06GA-ES24CE | SSA01-SRSS<br>SSA03-SRSS | 4 | 6 | 1Ø 110 | 60 | 30min. | 90-1700 | 0.62 | 0.062 | 0.45 | 0.045 | 0.55 | 0.055 | 3.0 |
| | S6R06GB-ES24<br>S6R06GB-ES24CE | SSB01-SRSS<br>SSB03-SRSS | 4 | 6 | 1Ø 220 | 60 | 30min. | 90-1700 | 0.62 | 0.062 | 0.45 | 0.045 | 0.55 | 0.055 | 0.8 |
| | S6R06GC-ES24<br>S6R06GC-ES24CE | SSC01-SRSS<br>SSC03-SRSS | 4 | 6 | 1Ø 100 | 50 | 30min. | 90-1400 | 0.56 | 0.056 | 0.38 | 0.038 | 0.50 | 0.050 | 3.0 |
| | | | | | | 60 | | 90-1700 | | | | | | | |
| | S6R06GD-ES24<br>S6R06GD-ES24CE | SSD01-SRSS<br>SSD03-SRSS | 4 | 6 | 1Ø 200 | 50 | 30min. | 90-1400 | 0.55 | 0.055 | 0.38 | 0.038 | 0.50 | 0.050 | 0.8 |
| | | | | | | 60 | | 90-1700 | | | | | | | |
| | S6R06GX-ES24<br>S6R06GX-ES24CE | SSX01-SRSS<br>SSX03-SRSS | 4 | 6 | 1Ø 220 | 50 | 30min. | 90-1400 | 0.47 | 0.047 | 0.38 | 0.038 | 0.45 | 0.045 | 0.7 |
| | | | | | 1Ø 240 | | | | 0.52 | 0.052 | 0.38 | 0.038 | 0.52 | 0.052 | |

❖ 기종명 맨 끝자리에 CE가 명기된 MOTOR MODEL의 인증 관련 내용은 SPG 규격 인증품 현황을 참고하여 주십시오. (CE marked at the end of motor model name indicates that it is thermally protected type which has received CE.)

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

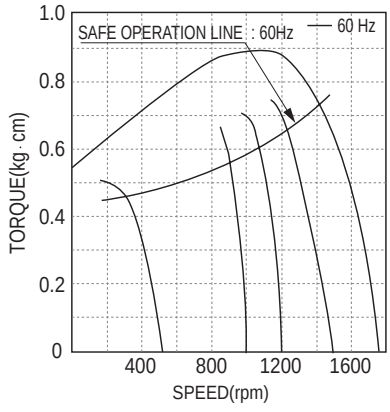
## 50Hz

| 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 | 250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | 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 | 6 |
| S6DA□B | kg-cm | 1.3 | 1.5 | 2.1 | 2.6 | 3.2 | 3.9 | 4.3 | 5.4 | 6.4 | 7.7 | 7.7 | 9.7 | 11.6 | 13.9 | 15.5 | 17.5 | 21.0 | 26.2 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| | N·m | 0.127 | 0.147 | 0.206 | 0.255 | 0.314 | 0.382 | 0.421 | 0.529 | 0.627 | 0.755 | 0.755 | 0.951 | 1.137 | 1.362 | 1.519 | 1.715 | 2.058 | 2.568 | 2.942 | 2.942 | 2.942 | 2.942 | 2.942 | 2.942 | 2.942 |

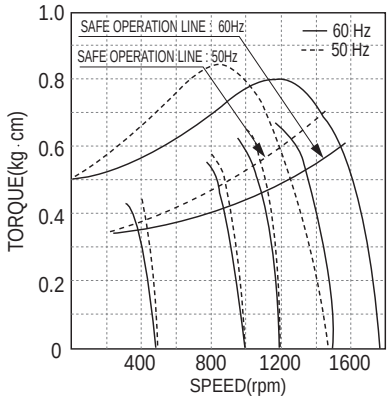
## 60Hz

| 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 | 250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | 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 | 7.2 |
| S6DA□B | kg.-cm | 1.0 | 1.3 | 1.7 | 2.1 | 2.6 | 3.1 | 3.5 | 4.4 | 5.2 | 6.3 | 6.3 | 7.8 | 9.4 | 11.3 | 12.6 | 14.2 | 17.0 | 21.3 | 25.5 | 28.4 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| | N·m | 0.098 | 0.127 | 0.167 | 0.206 | 0.255 | 0.304 | 0.343 | 0.431 | 0.510 | 0.617 | 0.617 | 0.764 | 0.921 | 1.107 | 1.235 | 1.392 | 1.666 | 2.087 | 2.499 | 2.783 | 2.942 | 2.942 | 2.942 | 2.942 | 2.942 |

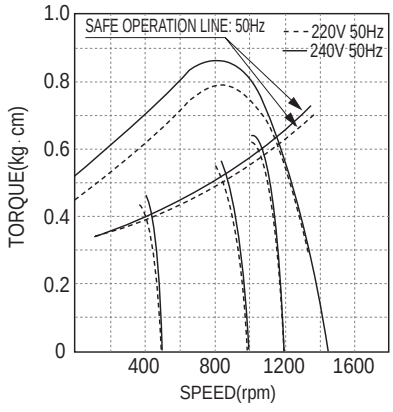
❖ GEAR HEAD 품명 중 □은 감속비를 표시합니다. (The code in □ of gearhead model is for gear ratio.)
❖ GEAR HEAD와 조합한 경우의 허용 TORQUE입니다. (It is the permissible torque of the assembled motor and gearhead.)
❖ 감속비 1/10의 중간 GEAR HEAD를 접속한 경우의 허용 TORQUE는 30㎏-㎝입니다. (The permissible torque of the motor and inter-decimal gearhead is 30 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.)




▲ S6R06GA-ES12 S6R06GA-ES24
S6R06GA-ES12CE S6R06GA-ES24CE
S6R06GB-ES12 S6R06GB-ES24
S6R06GB-ES12CE S6R06GB-ES24




▲ S6R06GC-ES12 S6R06GC-ES24
S6R06GC-ES12CE S6R06GC-ES24CE
S6R06GD-ES12 S6R06GD-ES24
S6R06GD-ES12CE S6R06GD-ES24CE

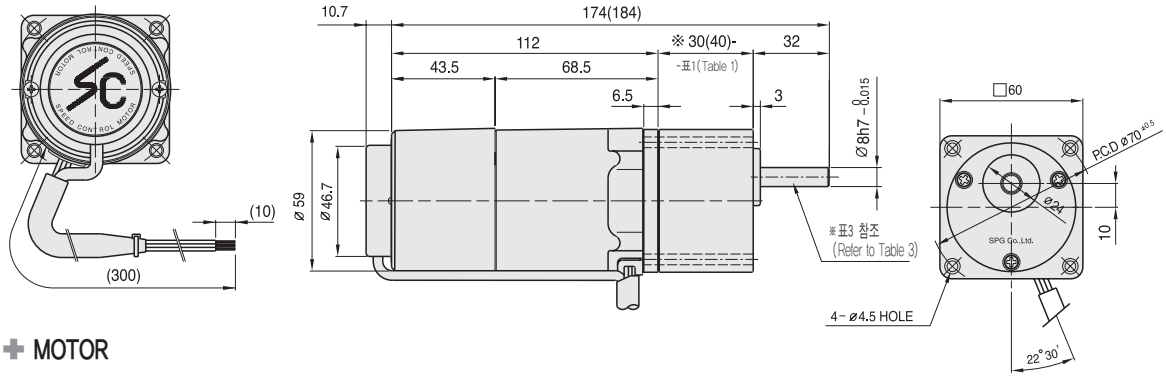



▲ S6R06GX-ES12 S6R06GX-ES24
S6R06GX-ES12CE S6R06GX-ES24CE

# DIMENSIONS

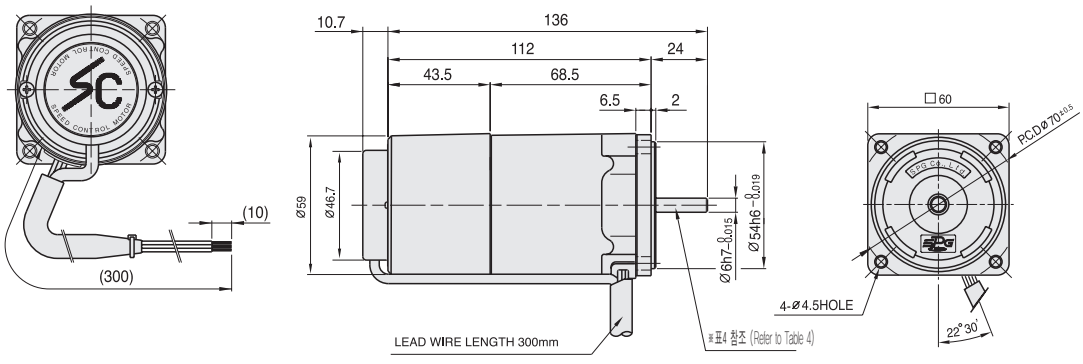
## GEARED MOTOR

※MOTOR MODEL : S6R06G□-ES12, S6R06G□-ES24
※HEAD MODEL : S6□A3□~S6□A250□



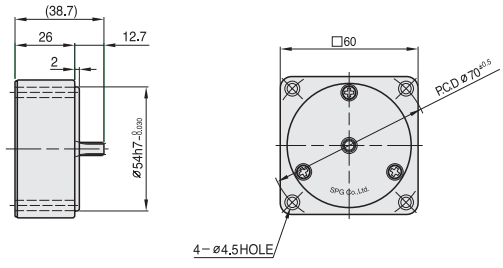

## MOTOR

※MOTOR MODEL : S6R06□□-ES12, S6R06□□-ES24

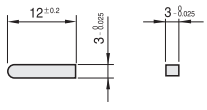



## INTER-DECIMAL GEAR HEAD

※MODEL : S6GX10B




## KEY SPEC

| GEAR HEAD |
|---|
|  |



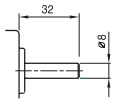
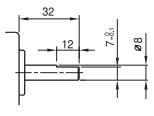
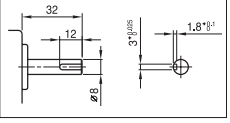
## ※30(40) - (표1 (Table1))

| GEAR RATIO | SIZE(㎜) |
|---|---|
| S6□A3□ ~ S6□A18□ | 30 |
| S6□A20□ ~ S6□A250□ | 40 |

## WEIGHT - (표2 (Table2))

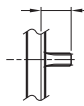
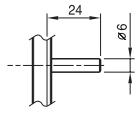
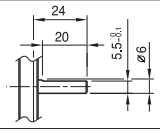
| PART | | WEIGHT(kg) |
|---|---|---|
| MOTOR | | 1.00 |
| DECIMAL GEAR HEAD | | 0.18 |
| GEAR HEAD | S6□A3□ ~S6□A18□ | 0.24 |
| | S6□A20□ ~S6□A40□ | 0.30 |
| | S6□A50□ ~S6□A250□ | 0.33 |

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

| MODEL | 출력축 구분 (TYPES OF OUTPUT SHAFT) |
|---|---|
| STRAIGHT TYPE<br>S6SA3□ ~S6SA250□ |  |
| D-CUT TYPE<br>S6DA3□ ~S6DA250□ |  |
| KEY TYPE<br>S6KA3□ ~S6KA250□ |  |



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

| MODEL | 출력축 구분 (TYPES OF OUTPUT SHAFT) |
|---|---|
| GEAR TYPE<br>S6R06G□-ES12<br>S6R06G□-ES24 |  |
| STRAIGHT TYPE<br>S6R06S□-ES12<br>S6R06S□-ES24 |  |
| D-CUT TYPE<br>S6R60D□-ES12<br>S6R60D□-ES24 |  |