# 25W

## REVERSIBLE MOTOR □80㎜ LEAD WIRE TYPE

| 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) |
| 80 | S8R25GA<br>S8R25GA(TP)<br>S8R25GACE | 4 | 25 | 1Ø 110 | 60 | 30min. | 0.71 | 1550 | 1.70 | 0.170 | 2.30 | 0.230 | 10.0 |
| | S8R25GB<br>S8R25GB(TP)<br>S8R25GBCE | 4 | 25 | 1Ø 220 | 60 | 30min. | 0.35 | 1600 | 1.65 | 0.165 | 2.30 | 0.230 | 2.5 |
| | S8R25GC<br>S8R25GC(TP)<br>S8R25GCCE | 4 | 25 | 1Ø 100 | 50 | 30min. | 0.63 | 1250 | 2.10 | 0.210 | 1.80 | 0.180 | 10.0 |
| | | | | | 60 | | 0.70 | 1500 | 1.70 | 0.170 | | | |
| | S8R25GD<br>S8R25GD(TP)<br>S8R25GDCE | 4 | 25 | 1Ø 200 | 50 | 30min. | 0.33 | 1250 | 2.10 | 0.210 | 1.80 | 0.180 | 2.5 |
| | | | | | 60 | | | 1550 | 1.70 | 0.170 | | | |
| | S8R25GE<br>S8R25GECE | 4 | 25 | 1Ø 100 | 50 | 30min. | 0.60 | 1250 | 2.10 | 0.210 | 1.30 | 0.130 | 8.0 |
| | | | | | 60 | | 0.65 | 1450 | 1.80 | 0.180 | | | |
| | | | | 1Ø 115 | 60 | | 0.63 | 1550 | 1.70 | 0.170 | | | 7.0 |
| | S8R25GX<br>S8R25GXCE | 4 | 25 | 1Ø 220 | 50 | 30min. | 0.26 | 1200 | 2.00 | 0.200 | 1.70 | 0.170 | 2.0 |
| | | | | 1Ø 240 | | | 0.28 | | 2.20 | 0.220 | 2.20 | 0.220 | |

❖ 기종명 S8R25GE는 UL규격 인증 제품으로 THERMALLY PROTECTED TYPE입니다.(UL FILE NO.E172720) (S8R25GE is UL approved (UL FILE No. E172720) thermally protected type.)
❖ 사용하는 전압 사양에 따라 CONDENSER 용량이 다르게 사용되므로 사용전압에 맞게 CONDENSER 용량을 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 S8R25GE 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. S8R25GECE는 115V용 사양으로만 출하됩니다. (CE marked at the end of model name indicates that it is thermally protected type which has received CE with built-in TP.
S8R25GECE is available only for 115V specification.)
❖ 기종명 맨 끝자리에 (TP)가 명기된 MODEL은 일반 MOTOR의 TP가 내장된 THERMALLY PROTECTED TYPE입니다. 또한 기종명 S8R25GE, S8R25GX는 TP가 내장된 THERMALLY P ROTECTED TYPE입니다. ( TP marked at the end of the model name indicates that it is standard motor with Thermal Protector mounted.S8R25GE, S8R25GX is thermally protected type with TP mounted.)
❖ 본 DATA는 BRAKE BLOCK을 MOTOR에 장착된 상태에서 측정한 DATA입니다. (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

| GEAR RATIO / MODEL | | 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 |
| S8KA□B | kg-cm | 5.3 | 6.4 | 8.9 | 10.7 | 13.4 | 16.0 | 17.8 | 22.3 | 26.7 | 32.1 | 32.1 | 40.2 | 48.2 | 57.8 | 64.2 | 72.6 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 |
| | N·m | 0.519 | 0.627 | 0.872 | 1.049 | 1.313 | 1.568 | 1.744 | 2.185 | 2.617 | 3.146 | 3.146 | 3.940 | 4.724 | 5.664 | 6.292 | 7.115 | 7.840 | 7.840 | 7.840 | 7.840 | 7.840 | 7.840 | 7.840 | 7.840 |

## 60Hz

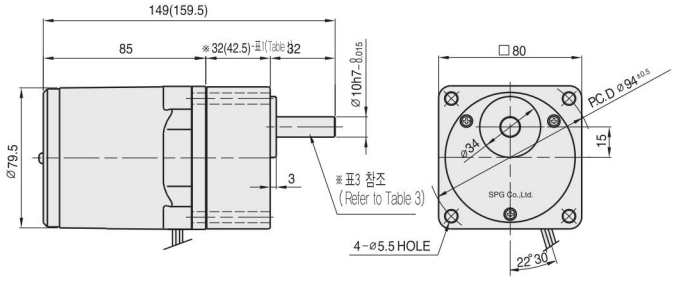
| GEAR RATIO / MODEL | | 3 | 3.6 | 5 | 6 | 7.5 | 9 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 90 | 100 | 120 | 150 | 180 | 200 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | rpm | 600 | 500 | 360 | 300 | 240 | 200 | 180 | 144 | 120 | 100 | 90 | 72 | 60 | 50 | 45 | 36 | 30 | 24 | 20 | 18 | 15 | 12 | 10 | 9 |
| S8KA□B | kg-cm | 4.4 | 5.2 | 7.3 | 8.7 | 10.9 | 13.1 | 14.6 | 18.2 | 21.9 | 26.2 | 26.3 | 32.9 | 39.4 | 47.3 | 52.6 | 59.4 | 71.3 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 |
| | N·m | 0.431 | 0.510 | 0.715 | 0.853 | 1.068 | 1.284 | 1.431 | 1.784 | 2.146 | 2.568 | 2.577 | 3.224 | 3.861 | 4.635 | 5.155 | 5.821 | 6.987 | 7.840 | 7.840 | 7.840 | 7.840 | 7.840 | 7.840 | 7.840 |

❖ 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 80㎏-㎝입니다. (The permissible torque of the motor and inter-decimal gearhead is 80 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

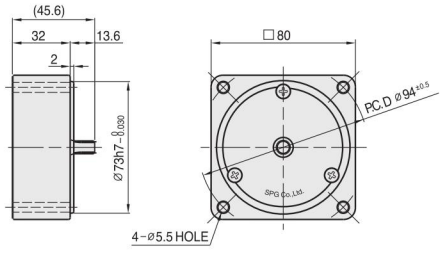
## GEARED MOTOR

※MOTOR MODEL : S8R25G□
※HEAD MODEL : S8□A3□~S8□A200□



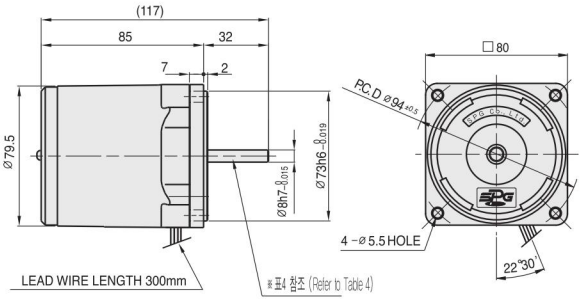

## INTER-DECIMAL GEAR HEAD

※MODEL : S8GX10B




## MOTOR

※MOTOR MODEL : S8R25□□



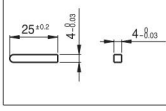
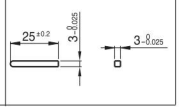

## ※32(42.5) - (표1 (Table1))

| GEAR RATIO | SIZE(mm) |
|---|---|
| S8□A3□ ~ S8□A18□ | 32 |
| S8□A20□ ~ S8□A200□ | 42.5 |

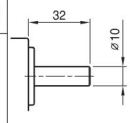
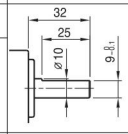
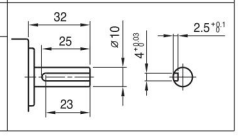
## WEIGHT - (표2 (Table2))

| PART | | WEIGHT(kg) |
|---|---|---|
| MOTOR | | 1.46 |
| DECIMAL GEAR HEAD | | 0.43 |
| GEAR HEAD | S8□A3□ ~S8□A18□ | 0.43 |
| | S8□A20□ ~S8□A40□ | 0.57 |
| | S8□A50□ ~S8□A200□ | 0.61 |

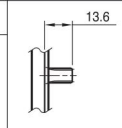
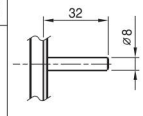
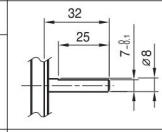
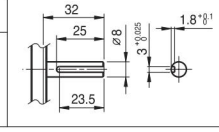
## KEY SPEC

| GEAR HEAD | MOTOR |
|---|---|
|  |  |

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

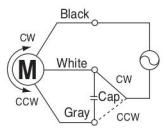
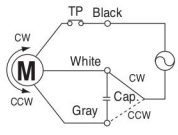
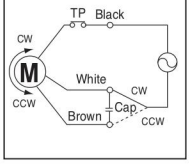
| MODEL | 출력축 구분 (TYPES OF OUTPUT SHAFT) |
|---|---|
| STRAIGHT TYPE<br>S8SA3□<br>~S8SA200□ |  |
| D-CUT TYPE<br>S8DA3□<br>~S8DA200□ |  |
| KEY TYPE<br>S8KA3□<br>~S8KA200□ |  |

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

| MODEL | 출력축 구분 (TYPES OF OUTPUT SHAFT) |
|---|---|
| GEAR TYPE<br>S8R25G□ |  |
| STRAIGHT TYPE<br>S8R25S□ |  |
| D-CUT TYPE<br>S8R25D□ |  |
| KEY TYPE<br>S8R25K□ |  |

# SCHEMATIC DIAGRAMS

회전방향은 MOTOR의 SHAFT 끝쪽에서 볼 때의 회전방향입니다. (The direction of motor rotation is as viewed from the front shaft end of the motor.)

| S8R25GA S8R25GB<br>S8R25GC S8R25GD | S8R25GA(TP) S8R25GB(TP)<br>S8R25GC(TP) S8R25GD(TP)<br>S8R25GACE S8R25GBCE S8R25GE<br>S8R25GCCE S8R25GDCE S8R25GECE | S8R25GX<br>S8R25GXCE |
|---|---|---|
| **CW,CCW** | **CW,CCW** | **CW,CCW** |
|  |  |  |