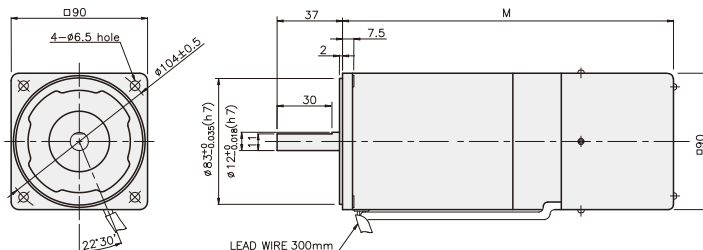


SPEED CONTROL & BRAKE MOTOR

120W

□90mm

K9RS120F□-D



寸法図表

| 品番 | M | 適用機種 |
|-----------------|-----|------|
| K9RS120F□-D-C50 | 236 | 50Hz |
| K9RS120F□-D | 216 | 60Hz |

※ 50Hzの製品は、モデル名にC50が表記されます。

SPECIFICATIONS

120W 30分 定格, 4極

| Model | Voltage (V) | Frequency (Hz) | Speed Range (rpm) | Permissible Torque | | Start T. (N·m/kgf·cm) | Current (A) | Condenser (μF) | Friction T. (N·m/kgf·cm) |
|-----------------|-------------|----------------|-------------------|--------------------|--------------|-----------------------|-------------|----------------|--------------------------|
| | | | | 1200 rpm | 90 rpm | | | | |
| | | | | (N·m/kgf·cm) | (N·m/kgf·cm) | | | | |
| K9R□120FJ-D-C50 | 100 | 50 | 90~1400 | 0.85/8.5 | 0.31/3.1 | 0.45/4.5 | 3.6 | 40 | 1/10 |
| K9R□120FJ-D | | 60 | 90~1700 | | | | | | |
| K9R□120FU-D | 110 | 60 | 90~1700 | 0.8/8 | 0.28/2.8 | 0.4/4 | 3 | 25 | 1/10 |
| | | | | | | | | | |
| K9R□120FL-D-C50 | 200 | 50 | 90~1400 | 0.78/7.8 | 0.29/2.9 | 0.37/3.7 | 1.4 | 8.5 | 1/10 |
| K9R□120FL-D | | 60 | 90~1700 | | | | | | |
| K9R□120FC-D-C50 | 220 | 50 | 90~1400 | 0.8/8 | 0.27/2.7 | 0.37/3.7 | 1.2 | 6 | 1/10 |
| | | | 230 | | | | | | |
| K9R□120FC-D | 220 | 60 | 90~1400 | 0.78/7.8 | 0.29/2.9 | 0.42/4.2 | 1.4 | 7 | |
| | | | 230 | | | | | | |
| K9R□120FD-D-C50 | 240 | 50 | 90~1400 | 0.8/8 | 0.27/2.7 | 0.37/3.7 | 1.3 | 6 | 1/10 |

* □ : SHAFT 形状 (S : STRAIGHT, P : PINION)

RATED TORQUE OF GEARHEAD

● 単相 100V/115V

単位 = 上段 : N·m / 下段 : kgf·cm

| Model | Ratio | Speed(rpm) | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------|----------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-----|-----|----|
| | | 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 | |
| K9R□120F□-D K9P□B, BF | 1200 | 100V/50/60Hz | 2.07 | 2.48 | 3.44 | 4.13 | 5.16 | 6.20 | 6.89 | 7.75 | 9.29 | 11.15 | 12.39 | 13.94 | 16.73 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | | 110V/115V/60Hz | 1.94 | 2.33 | 3.24 | 3.89 | 4.86 | 5.83 | 6.48 | 7.29 | 8.75 | 10.50 | 11.66 | 13.12 | 15.75 | 18.90 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | 90 | 100V/50/60Hz | 0.75 | 0.90 | 1.26 | 1.51 | 1.88 | 2.26 | 2.51 | 2.82 | 3.39 | 4.07 | 4.52 | 5.08 | 6.10 | 7.32 | 8.14 | 10.17 | 12.20 | 13.73 | 16.47 | 18.31 | 20 | 20 | 20 | 20 |
| | | 110V/115V/60Hz | 0.68 | 0.82 | 1.13 | 1.36 | 1.70 | 2.04 | 2.27 | 2.55 | 3.06 | 3.67 | 4.08 | 4.59 | 5.51 | 6.61 | 7.35 | 9.19 | 11.02 | 12.40 | 14.88 | 16.53 | 19.84 | 20 | 20 | 20 |

● 単相 200V/240V

単位 = 上段 : N·m / 下段 : kgf·cm

| Model | Ratio | Speed(rpm) | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------|--------------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-----|-----|----|
| | | 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 | |
| K9R□120F□-D K9P□B, BF | 1200 | 200V/220V/230V/240V/50Hz | 1.94 | 2.33 | 3.24 | 3.89 | 4.86 | 5.83 | 6.48 | 7.29 | 8.75 | 10.50 | 11.66 | 13.12 | 15.75 | 18.90 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | | 200V/220V/230V/60Hz | 1.90 | 2.27 | 3.16 | 3.79 | 4.74 | 5.69 | 6.32 | 7.11 | 8.53 | 10.24 | 11.37 | 12.79 | 15.35 | 18.42 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| | 90 | 200V/220V/230V/240V/50Hz | 0.66 | 0.79 | 1.09 | 1.31 | 1.64 | 1.97 | 2.19 | 2.46 | 2.95 | 3.54 | 3.94 | 4.43 | 5.31 | 6.38 | 7.09 | 8.86 | 10.63 | 11.96 | 14.35 | 15.94 | 19.13 | 20 | 20 | 20 |
| | | 200V/220V/230V/60Hz | 0.70 | 0.85 | 1.17 | 1.41 | 1.76 | 2.11 | 2.35 | 2.64 | 3.17 | 3.81 | 4.23 | 4.76 | 5.71 | 6.85 | 7.61 | 9.51 | 11.42 | 12.84 | 15.41 | 17.12 | 20 | 20 | 20 | 20 |

* GEARHEAD・DECIMAL GEARHEADは別売です。

* GEARHEADの品名の中 □ には 減速比が入ります。

* 色がMOTORと同じ方向、その以外は反対方向です。

* 表の減速比よりもっと減速しようとする場合には、ギアヘッドとモーターの間に減速比10のDECIMAL GEARHEADを設置することが可能です。この場合許容トルクは 20N·m/200kgfcm です。

* 回転数はMOTORの動機回転数(50Hz:1500rpm, 60Hz:1800rpm)を基準にして減速比に割って計算しました。実際を回転数は負荷の大きさによって表示される数値より2~20% 小さいです。

GEARHEADS

RATED TORQUE OF GEARHEAD

● 単相 100V/115V

単位 = 上段 : N・m / 下段 : kgf・cm

| Model Motor/ Gearhead | Ratio Speed(rpm) | 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 | |
| K9R□120F□-D K9P□BU, BUF | 1200 | 100V 50/60Hz | 2.07 20.7 | 2.48 24.8 | 3.44 34.4 | 4.13 41.3 | 5.16 51.6 | 6.20 62.0 | 6.89 68.9 | 7.75 77.5 | 9.29 92.9 | 11.15 111.5 | 12.39 123.9 | 13.94 139.4 | 16.73 167.3 | 20.08 201 | 22.31 223 | 27.88 279 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 |
| | | 100V/115V 60Hz | 1.94 19.4 | 2.33 23.3 | 3.24 32.4 | 3.89 38.9 | 4.86 48.6 | 5.83 58.3 | 6.48 64.8 | 7.29 72.9 | 8.75 87.5 | 10.50 105.0 | 11.66 116.6 | 13.12 131.2 | 15.75 157.5 | 18.90 189.0 | 21.00 210 | 26.24 262 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 |
| | 90 | 100V 50/60Hz | 0.75 7.5 | 0.90 9.0 | 1.26 12.6 | 1.51 15.1 | 1.88 18.8 | 2.26 22.6 | 2.51 25.1 | 2.82 28.2 | 3.39 33.9 | 4.07 40.7 | 4.52 45.2 | 5.08 50.8 | 6.10 61.0 | 7.32 73.2 | 8.14 81.4 | 10.17 101.7 | 12.20 122.0 | 13.73 137.3 | 16.47 164.7 | 18.31 183.1 | 21.97 219.7 | 27.46 274.6 | 30 300 | 30 300 |
| | | 110V/115V 60Hz | 0.68 6.8 | 0.82 8.2 | 1.13 11.3 | 1.36 13.6 | 1.70 17.0 | 2.04 20.4 | 2.27 22.7 | 2.55 25.5 | 3.06 30.6 | 3.67 36.7 | 4.08 40.8 | 4.59 45.9 | 5.51 55.1 | 6.61 66.1 | 7.35 73.5 | 9.19 91.9 | 11.02 110.2 | 12.40 124.0 | 14.88 148.8 | 16.53 165.3 | 19.84 198.4 | 24.80 248.0 | 29.76 297.6 | 30 300 |

● 単相 200V/240V

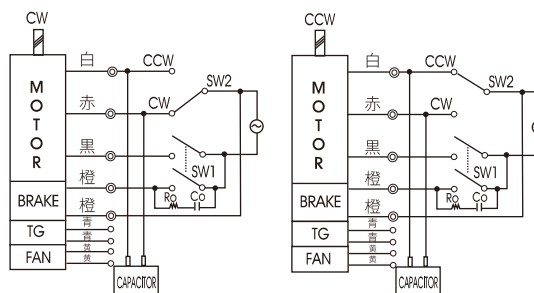
単位 = 上段 : N・m / 下段 : kgf・cm

| Model Motor/ Gearhead | Ratio Speed(rpm) | 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 | |
| K9R□120F□-D K9P□BU, BUF | 1200 | 200V/220V/230V 240V 50Hz | 1.94 19.4 | 2.33 23.3 | 3.24 32.4 | 3.89 38.9 | 4.86 48.6 | 5.83 58.3 | 6.48 64.8 | 7.29 72.9 | 8.75 87.5 | 10.50 105.0 | 11.66 116.6 | 13.12 131.2 | 15.75 157.5 | 18.90 189.0 | 21.00 210.0 | 26.24 262.4 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 |
| | | 200V/220V 230V 60Hz | 1.90 19.0 | 2.27 22.7 | 3.16 31.6 | 3.79 37.9 | 4.74 47.4 | 5.69 56.9 | 6.32 63.2 | 7.11 71.1 | 8.53 85.3 | 10.24 102.4 | 11.37 113.7 | 12.79 127.9 | 15.35 153.5 | 18.42 184.2 | 20.47 204.7 | 25.59 255.9 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 | 30 300 | 30 3000 |
| | 90 | 200V/220V/230V 240V 50Hz | 0.66 6.6 | 0.79 7.9 | 1.09 10.9 | 1.31 13.1 | 1.64 16.4 | 1.97 19.7 | 2.19 21.9 | 2.46 24.6 | 2.95 29.5 | 3.54 35.4 | 3.94 39.4 | 4.43 44.3 | 5.31 53.1 | 6.38 63.8 | 7.09 70.9 | 8.86 88.6 | 10.63 106.3 | 11.96 119.6 | 14.35 143.5 | 15.94 159.4 | 19.13 191.3 | 23.91 239.1 | 28.70 287.0 | 30 300 |
| | | 200V/220V 230V 60Hz | 0.70 7.0 | 0.85 8.5 | 1.17 11.7 | 1.41 14.1 | 1.76 17.6 | 2.11 21.1 | 2.35 23.5 | 2.64 26.4 | 3.17 31.7 | 3.81 38.1 | 4.23 42.3 | 4.76 47.6 | 5.71 57.1 | 6.85 68.5 | 7.61 76.1 | 9.51 95.1 | 11.42 114.2 | 12.84 128.4 | 15.41 154.1 | 17.12 171.2 | 20.55 205.5 | 25.69 256.9 | 30 300 | 30 300 |

- * GEARHEAD・DECIMAL GEARHEADは別売です。
- * GEARHEADの品名の中 □ には 減速比が入ります。
- * ■■■■■ 色がMOTORと同じ方向、その以外は反対方向です。
- * 表の減速比よりもっと減速しようとする場合には、ギアヘッドとモーターの間に減速比10のDECIMAL GEARHEADを設置することが可能です。この場合許容トルクは 30N・m/300kgf・cmです。
- * 回転数はMOTORの動機回転数(50Hz:1500rpm, 60Hz:1800rpm)を基準にして減速比に割って計算しました。実際を回転数は負荷の大きさによって表示される数値より2~20%小さいです。

CONNECTION DIAGRAMS

接点保護のために結線図のようにサージ(Surge)電圧吸収用Cr回路を接続してください。
 $R_o = 5 - 200\Omega$
 $C_o = 0.1 \sim 0.2\mu F \ 200WV(400WV)$



※ 回転方向は出力軸から見た場合

GEARHEADS

DIMENSIONS

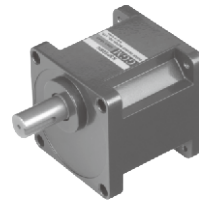
K9P□B



K9P□BF, BUF

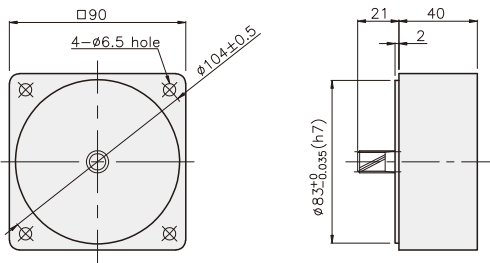


K9P□BU

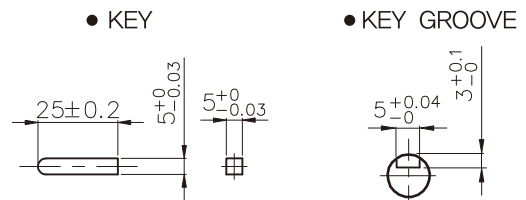


DECIMAL GEARHEAD

K9P10BX

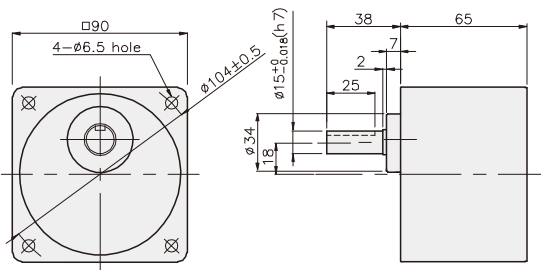


KEY SPEC

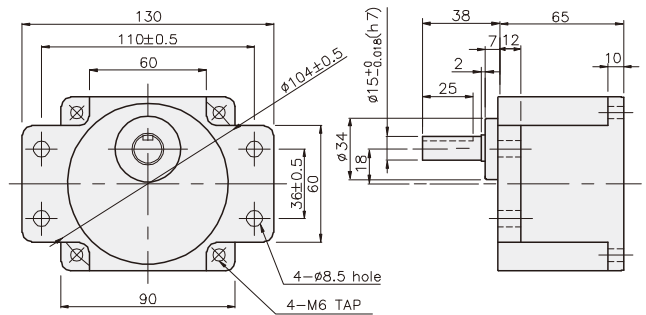


GEARHEAD

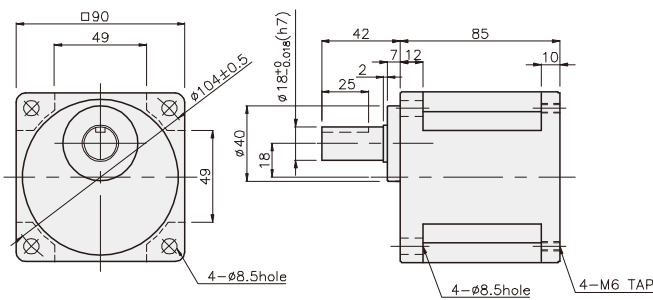
K9P□B



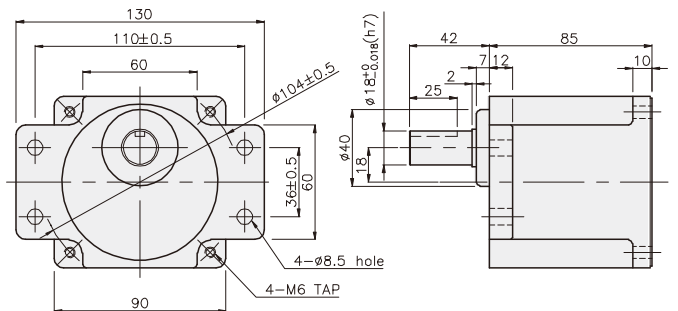
K9P□BF



K9P□BU



K9P□BUF



GEARHEADS

DIMENSIONS

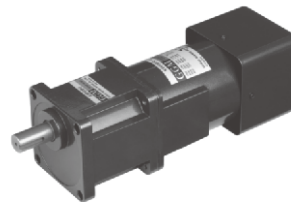
K9RP120F□-D + K9P□B



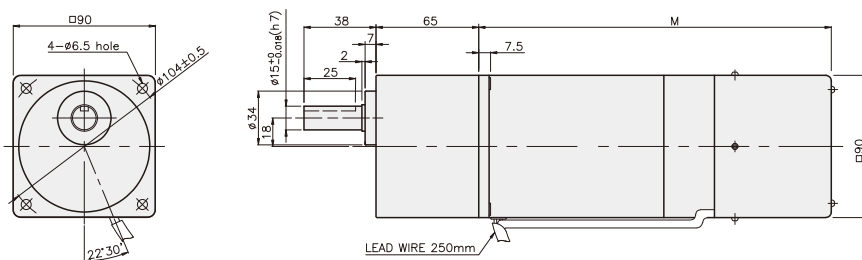
K9RP120F□-D + K9P□BF, BUF



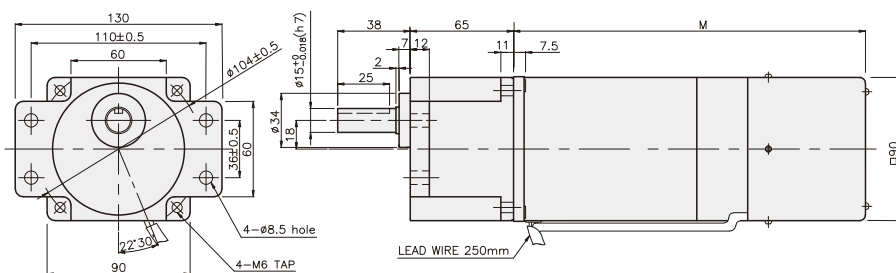
K9RP120F□-D + K9P□BU



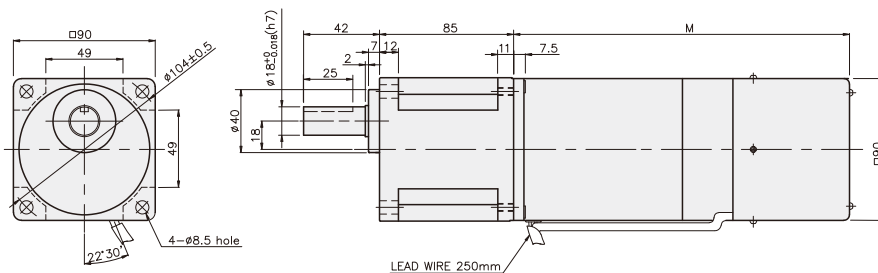
K9RP120F□-D + K9P□B



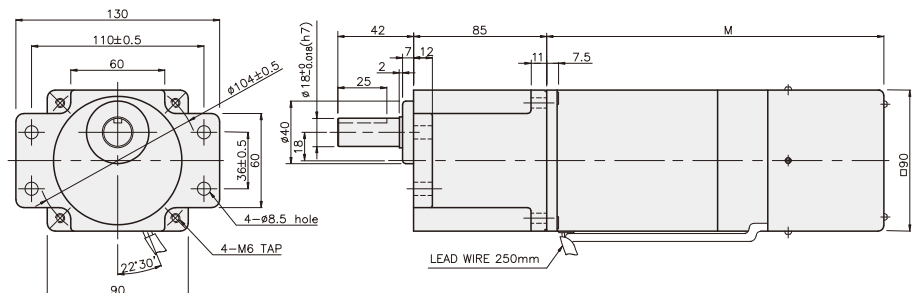
K9RP120F□-D + K9P□BF



K9RP120F□-D + K9P□BU



K9RP120F□-D + K9P□BUF



重さ

| PART | WEIGHT(kg) |
|-------------------|------------|
| MOTOR | 3.54 |
| DECIMAL GEAR HEAD | 0.62 |

寸法図表

| 品番 | M | 適用機種 |
|----|-----|------|
| 01 | 236 | 50Hz |
| 02 | 216 | 60Hz |

寸法図表

| 品番 | 適用機種 | 取付BOLT |
|----|-----------|---------------|
| 01 | K9P3~200B | M6 P1.0 X 95 |
| 02 | K9P10BX | M6 P1.0 X 140 |

重さ

| PART | WEIGHT(kg) |
|-------------|------------|
| K9P3~10B | 1.22 |
| K9P12.5~20B | 1.32 |
| K9P25~60B | 1.42 |
| K9P75~200B | 1.45 |

寸法図表

| 品番 | 適用機種 | 取付BOLT |
|----|------------|--------------|
| 01 | K9P3~200BF | M6 P1.0 X 20 |
| 02 | K9P10BX | M6 P1.0 X 65 |

重さ

| PART | WEIGHT(kg) |
|--------------|------------|
| K9P3~10BF | 1.22 |
| K9P12.5~20BF | 1.30 |
| K9P25~60BF | 1.42 |
| K9P75~200BF | 1.44 |

寸法図表

| 品番 | 適用機種 | 取付BOLT |
|----|------------|--------------|
| 01 | K9P3~200BU | M6 P1.0 X 20 |
| 02 | K9P10BX | M6 P1.0 X 65 |

重さ

| PART | WEIGHT(kg) |
|--------------|------------|
| K9P3~10BU | 1.44 |
| K9P12.5~20BU | 1.55 |
| K9P25~60BU | 1.69 |
| K9P75~200BU | 1.74 |

寸法図表

| 品番 | 適用機種 | 取付BOLT |
|----|-------------|--------------|
| 01 | K9P3~200BUF | M6 P1.0 X 20 |
| 02 | K9P10BX | M6 P1.0 X 65 |

重さ

| PART | WEIGHT(kg) |
|---------------|------------|
| K9P3~10BUF | 1.50 |
| K9P12.5~20BUF | 1.62 |
| K9P25~60BUF | 1.76 |
| K9P75~200BUF | 1.82 |