

| Principal dimensions (mm) |        |       |                |      | Basic load ratings(N) |      | Basic load ratings(kgf) |     | Limiting Speed(rpm) |                  | Designation |               | Abutment and fillet dimensions |                |         |         |                | Weight       |               |
|---------------------------|--------|-------|----------------|------|-----------------------|------|-------------------------|-----|---------------------|------------------|-------------|---------------|--------------------------------|----------------|---------|---------|----------------|--------------|---------------|
| 外形尺寸                      |        |       |                |      | 额定载荷(N)               |      | 额定载荷(kgf)               |     | 极限转速(rpm)           |                  | 轴承代号        |               | 安装尺寸                           |                |         |         |                | 重量           |               |
| d                         | D      | B     | B <sub>1</sub> | r    | Cr                    | Cor  | Cr                      | Cor | Grease<br>脂润滑       | Oil<br>油润滑       | Open type   | With shielded | d <sub>a</sub>                 | d <sub>b</sub> | Da      | Db      | r <sub>a</sub> | Open<br>type | With shielded |
|                           |        |       |                | min  |                       |      |                         |     | Open type<br>开放型    | Open type<br>开放型 | 开放型         | 防尘盖型          | min(最小)                        | max(最大)        | max(最大) | min(最小) | max(最大)        | 开放型          | 防尘盖型          |
|                           |        |       |                | (最小) |                       |      |                         |     | Z·ZZ                | Z                | (mm)        |               |                                |                |         | (g)     |                |              |               |
| 1.016                     | 3.175  | 1.191 | -              | 0.1  | 80                    | 23   | 8                       | 2.5 | 130000              | 150000           | R09         | -             | 1.9                            | -              | 2.3     | -       | 0.1            | 0.04         | -             |
| 1.191                     | 3.967  | 1.588 | 2.38           | 0.1  | 138                   | 35   | 14                      | 3.5 | 110000              | 130000           | R0          | R0ZZ          | 2                              | 1.9            | 3.1     | 3.5     | 0.1            | 0.09         | 0.11          |
| 1.397                     | 4.762  | 1.984 | 2.779          | 0.1  | 231                   | 66   | 24                      | 6.5 | 90000               | 110000           | R1          | R1ZZ          | 2.2                            | 2.3            | 3.9     | 4.1     | 0.1            | 0.15         | 0.19          |
| 1.984                     | 6.35   | 2.38  | 3.571          | 0.1  | 310                   | 108  | 32                      | 11  | 67000               | 80000            | R1-4        | R1-4ZZ        | 2.8                            | 3.9            | 5.5     | 5.9     | 0.1            | 0.35         | 0.5           |
| 2.38                      | 4.762  | 1.588 | -              | 0.1  | 188                   | 60   | 19                      | 6   | 80000               | 95000            | R133        | -             | 3.2                            | -              | 3.9     | -       | 0.1            | 0.1          | -             |
| 2.38                      | 4.762  | -     | 2.38           | 0.1  | 143                   | 52   | 15                      | 5.5 | 80000               | 95000            | -           | R133ZZS       | -                              | 3              | -       | 4.2     | 0.1            | -            | 0.13          |
| 2.38                      | 7.938  | 2.779 | 3.571          | 0.15 | 550                   | 175  | 56                      | 18  | 60000               | 71000            | R1-5        | R1-5ZZ        | 3.6                            | 4.1            | 6.7     | 7       | 0.15           | 0.6          | 0.72          |
| 3.175                     | 6.35   | 2.38  | 2.779          | 0.1  | 283                   | 95   | 29                      | 9.5 | 67000               | 80000            | R144        | R144ZZ        | 4                              | 3.9            | 5.5     | 5.9     | 0.1            | 0.25         | 0.27          |
| 3.175                     | 7.938  | 2.779 | 3.571          | 0.1  | 560                   | 179  | 57                      | 18  | 60000               | 67000            | R2-5        | R2-5ZZ        | 4                              | 4.3            | 7.1     | 7.3     | 0.1            | 0.55         | 0.72          |
| 3.175                     | 9.525  | 2.779 | 3.571          | 0.15 | 640                   | 225  | 65                      | 23  | 53000               | 63000            | R2-6        | R2-6ZZS       | 4.4                            | 4.6            | 8.3     | 8.2     | 0.15           | 0.96         | 1.13          |
| 3.175                     | 9.525  | 3.967 | 3.967          | 0.3  | 630                   | 218  | 64                      | 22  | 56000               | 67000            | R2          | R2ZZ          | 5.2                            | 4.8            | 7.5     | 8       | 0.3            | 1.36         | 1.39          |
| 3.175                     | 12.7   | 4.366 | 4.366          | 0.3  | 640                   | 225  | 65                      | 23  | 53000               | 63000            | R2A         | R2AZZ         | 5.2                            | 4.6            | 10.7    | 8.2     | 0.3            | 3.3          | 3.23          |
| 3.967                     | 7.938  | 2.779 | 3.175          | 0.1  | 360                   | 149  | 37                      | 15  | 53000               | 63000            | R155        | R155ZZS       | 4.8                            | 5.5            | 7.1     | 7.3     | 0.1            | 0.51         | 0.56          |
| 4.762                     | 7.938  | 2.779 | 3.175          | 0.1  | 360                   | 149  | 37                      | 15  | 53000               | 63000            | R156        | R156ZZS       | 5.6                            | 5.5            | 7.1     | 7.3     | 0.1            | 0.39         | 0.42          |
| 4.762                     | 9.525  | 3.175 | 3.175          | 0.1  | 710                   | 270  | 73                      | 28  | 50000               | 60000            | R166        | R166ZZ        | 5.6                            | 5.9            | 8.7     | 8.8     | 0.1            | 0.81         | 0.85          |
| 4.762                     | 12.7   | 3.967 | 4.978          | 0.3  | 1300                  | 485  | 133                     | 49  | 43000               | 53000            | R3          | R3ZZ          | 6.8                            | 6.5            | 10.7    | 11.2    | 0.3            | 2.21         | 2.79          |
| 6.35                      | 9.525  | 3.175 | 3.175          | 0.1  | 420                   | 204  | 43                      | 21  | 48000               | 56000            | R168B       | R168BZZ       | 7.2                            | 7              | 8.7     | 8.9     | 0.1            | 0.53         | 0.62          |
| 6.35                      | 12.7   | 3.175 | 4.762          | 0.15 | 1080                  | 440  | 110                     | 45  | 40000               | 50000            | R188        | R188ZZ        | 7.6                            | 7.4            | 11.5    | 11.6    | 0.15           | 1.53         | 2.21          |
| 6.35                      | 15.875 | 4.978 | 4.978          | 0.3  | 1610                  | 660  | 164                     | 68  | 38000               | 45000            | R4B         | R4BZZ         | 8.4                            | 8.4            | 13.8    | 13.8    | 0.3            | 4.5          | 4.43          |
| 6.35                      | 19.05  | 5.558 | 7.142          | 0.4  | 2340                  | 885  | 238                     | 90  | 36000               | 43000            | R4AA        | R4AAZZ        | 9.4                            | 9              | 16      | 16.6    | 0.4            | 7.48         | 9.17          |
| 7.938                     | 12.7   | 3.967 | 3.967          | 0.15 | 540                   | 276  | 55                      | 28  | 40000               | 48000            | R1810       | R1810ZZ       | 9.2                            | 9              | 11.5    | 11.6    | 0.15           | 1.56         | 1.48          |
| 9.525                     | 22.225 | 5.558 | 7.142          | 0.4  | 3350                  | 1410 | 340                     | 144 | 32000               | 38000            | R6          | R6ZZ          | 12.6                           | 11.9           | 19.2    | 20      | 0.4            | 9.02         | 11            |