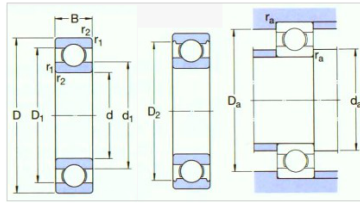


# MR Series



| Designation |           |              |              | Principal dimensions[mm] |    |     |     |        | Basic load ratings(N) |     | Basic load ratings[kgf] |     | Speed ratings(rpm) |       |        | Abutment and fillet dimensions (mm) |         |         |         |         |         | Weight(g) |             |
|-------------|-----------|--------------|--------------|--------------------------|----|-----|-----|--------|-----------------------|-----|-------------------------|-----|--------------------|-------|--------|-------------------------------------|---------|---------|---------|---------|---------|-----------|-------------|
| With shield | Open type | With seal VV | With seal DD | d                        | D  | B   | B1  | r(min) | Cr                    | Cor | Cr                      | Cor | Grease ZZ          | Oil Z | D-D    | da(min)                             | db(max) | Da(Max) | Db(min) | ra(max) | rb(max) | Open type | With shield |
| MR31        | -         | -            | -            | 1                        | 3  | 15  | -   | 0.05   | 80                    | 23  | 8                       | 2.5 | 130000             | -     | 150000 | 1.4                                 | -       | 2.6     | -       | 0.05    | -       | 0.04      | -           |
| MR41X       | MR41XZZ   | -            | -            | 1.2                      | 4  | 1.8 | 2.5 | 0.1    | 138                   | 35  | 14                      | 3.5 | 110000             | -     | 130000 | 2                                   | 1.9     | 3.2     | 3.5     | 0.1     | 0.1     | 0.1       | 0.14        |
| MR52B       | MR52BZZ   | -            | -            | 2                        | 5  | 2   | 25  | 0.1    | 187                   | 58  | 19                      | 6   | 85000              | -     | 100000 | 2.8                                 | 2.7     | 4.2     | 4.4     | 0.1     | 0.1     | 0.16      | 0.23        |
| MR62        | MR62ZZ    | -            | -            | 2                        | 6  | 25  | 2.5 | 0.15   | 330                   | 98  | 34                      | 10  | 75000              | -     | 90000  | 3.2                                 | 3       | 4.8     | 5.2     | 0.15    | 0.15    | 0.3       | 0.29        |
| MR72        | MR72ZZ    | -            | -            | 2                        | 7  | 25  | 3   | 0.15   | 385                   | 127 | 39                      | 13  | 63000              | -     | 75000  | 3.2                                 | 3.8     | 5.8     | 6.2     | 0.15    | 0.15    | 0.45      | 0.49        |
| MR82X       | -         | -            | -            | 2.5                      | 8  | 25  | -   | 2      | 560                   | 179 | 57                      | 18  | 60000              | -     | 67000  | 4.1                                 | -       | 6.4     | -       | 0.2     | -       | 0.56      | -           |
| MR63        | MR63ZZ    | -            | -            | 3                        | 6  | 2   | 2.5 | 0.1    | 208                   | 74  | 21                      | 7.5 | 71000              | -     | 80000  | 3.8                                 | 3.7     | 5.2     | 5.4     | 0.1     | 0.1     | 0.2       | 0.27        |
| MR83        | -         | -            | -            | 3                        | 8  | 2.5 | -   | 0.15   | 560                   | 179 | 57                      | 18  | 60000              | -     | 67000  | 4.2                                 | -       | 6.8     | -       | 0.15    | -       | 0.54      | -           |
| MR93        | MR93ZZ    | -            | -            | 3                        | 9  | 25  | 4   | 0.2    | 570                   | 187 | 58                      | 19  | 56000              | -     | 67000  | 4.6                                 | 4.3     | 7.4     | 7.9     | 0.2     | 0.15    | 0.73      | 1.18        |
| MR74        | -         | -            | -            | 4                        | 7  | 2   | -   | 0.1    | 310                   | 115 | 32                      | 12  | 60000              | -     | 67000  | 4.8                                 | -       | 6.2     | -       | 0.1     | -       | 0.22      | -           |
| -           | MR74ZZ    | -            | -            | 4                        | 7  | -   | 25  | -      | 255                   | 107 | 26                      | 11  | 60000              | -     | 71000  | -                                   | 4.8     | -       | 6.3     | -       | 0.1     | -         | 0.29        |
| MR84        | MR84ZZ    | -            | -            | 4                        | 8  | 2   | 3   | 0.15   | 395                   | 139 | 40                      | 14  | 56000              | -     | 67000  | 5.2                                 | 5       | 6.8     | 7.4     | 0.15    | 0.1     | 0.36      | 0.56        |
| MR104B      | MR104BZZ  | -            | -            | 4                        | 10 | 3   | 4   | 0.2    | 710                   | 270 | 73                      | 28  | 50000              | -     | 60000  | 5.6                                 | 5.9     | 8.4     | 8.8     | 0.2     | 0.15    | 1.04      | 1.42        |
| MR85        | -         | -            | -            | 5                        | 8  | 2   | -   | 0.1    | 310                   | 120 | 31                      | 12  | 53000              | -     | 63000  | 5.8                                 | -       | 7.2     | -       | 0.1     | -       | 0.26      | -           |
| -           | MR85ZZ    | -            | -            | 5                        | 8  | -   | 2.5 | -      | 278                   | 131 | 28                      | 13  | 53000              | -     | 63000  | -                                   | 5.8     | -       | 7.4     | -       | 0.1     | -         | 0.34        |
| MR95        | MR95ZZ1   | -            | -            | 5                        | 9  | 2.5 | 3   | 0.15   | 430                   | 168 | 44                      | 17  | 50000              | -     | 60000  | 6.2                                 | 6       | 7.8     | 8.2     | 0.15    | 0.15    | 0.5       | 0.58        |
| MR105       | MR105ZZ   | -            | -            | 5                        | 10 | 3   | 4   | 0.15   | 430                   | 168 | 44                      | 17  | 50000              | -     | 60000  | 6.2                                 | 6       | 8.8     | 8.4     | 0.15    | 0.15    | 0.95      | 1.29        |
| -           | MR115ZZ   | MR115VV      | -            | 5                        | 11 | -   | 4   | -      | 715                   | 276 | 73                      | 28  | 48000              | -     | 56000  | -                                   | 6.3     | -       | 9.8     | -       | 0.15    | -         | 1.49        |
| MR106       | MR106ZZ1  | -            | -            | 6                        | 10 | 2.5 | 3   | 0.15   | 495                   | 218 | 51                      | 22  | 45000              | -     | 53000  | 7.2                                 | 7       | 8.8     | 9.3     | 0.15    | 0.1     | 0.56      | 0.68        |
| MR126       | MR126ZZ   | -            | MR126DD      | 6                        | 12 | 3   | 4   | 0.2    | 715                   | 292 | 73                      | 30  | 43000              | 40000 | 50000  | 7.6                                 | 7.2     | 10.4    | 10.9    | 0.2     | 0.15    | 1.27      | 1.74        |
| MR117       | MR117ZZ   | -            | -            | 7                        | 11 | 2.5 | 3   | 0.15   | 455                   | 201 | 47                      | 21  | 43000              | -     | 50000  | 8.2                                 | 8       | 9.8     | 10.5    | 0.15    | 0.1     | 0.62      | 0.72        |
| MR137       | MR137ZZ   | -            | -            | 7                        | 13 | 3   | 4   | 0.2    | 540                   | 276 | 55                      | 28  | 40000              | -     | 48000  | 8.6                                 | 9       | 11.4    | 11.6    | 0.2     | 0.15    | 1.58      | 2.02        |
| MR128       | MR128ZZ1  | -            | -            | 8                        | 12 | 2.5 | 3.5 | 0.15   | 545                   | 274 | 56                      | 28  | 40000              | -     | 48000  | 9.2                                 | 9       | 10.8    | 11.3    | 0.15    | 0.1     | 0.71      | 0.97        |
| MR148       | MR148ZZ   | MR148VV      | MR148DD      | 8                        | 14 | 3.5 | 4   | 0.2    | 820                   | 385 | 83                      | 39  | 38000              | 32000 | 45000  | 9.6                                 | 9.2     | 12.4    | 12.8    | 0.2     | 0.15    | 1.86      | 2.16        |