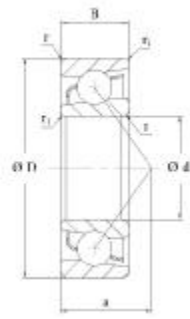


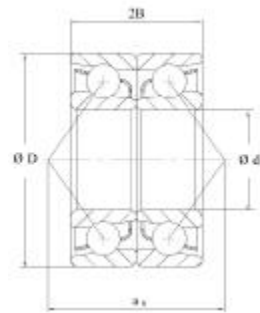
Angular Contact Ball Bearings

Single Row

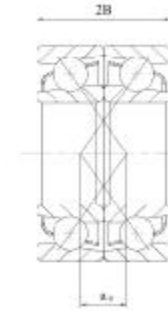
HMEC



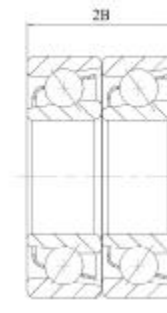
single



DB



DF



DT

| Shaft diameter | Dimensions | | | Basic load ratings (single type) | | Limiting Speed (single type) | | Working point ≈ a ₀ |
|----------------|------------|-----|----|----------------------------------|-----------|------------------------------|-------|--------------------------------------|
| | d | D | B | dyn. Cr | stat. Cor | grease | oil | |
| | mm | | | kN | | min ⁻¹ | | |
| 40 | 40 | 68 | 15 | 18.8 | 14.6 | 10000 | 14000 | 23 |
| | 40 | 80 | 18 | 35.5 | 25.1 | 9600 | 13000 | 26.5 |
| | 40 | 80 | 18 | 32.0 | 23.0 | 8300 | 11000 | 34 |
| | 40 | 90 | 23 | 49.0 | 33.0 | 8500 | 12000 | 30.5 |
| | 40 | 90 | 23 | 45.0 | 30.5 | 7400 | 9900 | 39 |
| | 40 | 90 | 23 | 45.0 | 30.5 | 7400 | 9900 | 39 |
| 45 | 45 | 68 | 12 | 15.7 | 12.9 | 10000 | 14000 | 22.5 |
| | 45 | 75 | 16 | 22.3 | 17.7 | 9500 | 13000 | 25.5 |
| | 45 | 85 | 19 | 39.5 | 28.7 | 8700 | 12000 | 28.5 |
| | 45 | 85 | 19 | 36.0 | 26.2 | 7400 | 9900 | 37 |
| | 45 | 100 | 25 | 63.5 | 43.5 | 7800 | 10000 | 33.5 |
| | 45 | 100 | 25 | 58.5 | 40.0 | 6600 | 8900 | 43 |
| 50 | 50 | 72 | 12 | 16.6 | 14.5 | 9200 | 12000 | 23.5 |
| | 50 | 80 | 16 | 23.7 | 20.1 | 8600 | 11000 | 27 |
| | 50 | 90 | 20 | 41.5 | 31.5 | 7900 | 10000 | 30 |
| | 50 | 90 | 20 | 37.5 | 28.6 | 6700 | 9000 | 39.5 |
| | 50 | 110 | 27 | 74.0 | 52.0 | 7100 | 9400 | 36.5 |
| | 50 | 110 | 27 | 68.0 | 48.0 | 6000 | 8100 | 47 |
| 55 | 55 | 80 | 13 | 17.3 | 16.1 | 8400 | 11000 | 26 |
| | 55 | 90 | 18 | 31.0 | 26.3 | 7900 | 11000 | 30 |
| | 55 | 100 | 21 | 51.0 | 39.5 | 7100 | 9500 | 33 |
| | 55 | 100 | 21 | 46.5 | 36.0 | 6100 | 8200 | 43 |
| | 55 | 120 | 29 | 86.0 | 61.5 | 6400 | 8600 | 40 |
| | 55 | 120 | 29 | 79.0 | 56.5 | 5500 | 7300 | 52 |

| Basic load ratings (combined type) | | Limiting Speed (combined type) | | Code bearing HMEC (combined type) | | | Mass ≈ kg | |
|------------------------------------|-----------|--------------------------------|-------|-----------------------------------|----------------|----------------|-----------------|-------|
| dyn. Cr | stat. Cor | grease | oil | DB | DF | DT | | |
| kN | | min ⁻¹ | | (single type) | | | | |
| 30.5 | 29.2 | 8300 | 11000 | 7008DB | 7008DF | 7008DT | 7008 | 0.222 |
| 57.5 | 50.5 | 7700 | 10000 | 7208DB | 7208DF | 7208DT | 7208 | 0.355 |
| 52.0 | 46.0 | 6700 | 8900 | 7208BDB | 7208BDF | 7208BDT | 7208B | 0.375 |
| 79.5 | 66.0 | 6900 | 9200 | 7308DB | 7308DF | 7308DT | 7308 | 0.625 |
| 73.0 | 60.5 | 6000 | 8000 | 7308BDB | 7308BDF | 7308BDT | 7308B | 0.636 |
| 25.5 | 25.7 | 8100 | 11000 | 7909DB | 7909DF | 7909DT | 7909 | 0.150 |
| 36.0 | 35.5 | 7500 | 10000 | 7009DB | 7009DF | 7009DT | 7009 | 0.282 |
| 64.5 | 57.5 | 6900 | 9200 | 7209DB | 7209DF | 7209DT | 7209 | 0.404 |
| 58.5 | 52.5 | 6000 | 8000 | 7209BDB | 7209BDF | 7209BDT | 7209B | 0.410 |
| 103 | 87.0 | 6200 | 8200 | 7309DB | 7309DF | 7309DT | 7309 | 0.837 |
| 95.0 | 80.5 | 5400 | 7200 | 7309BDB | 7309BDF | 7309BDT | 7309B | 0.854 |
| 27.0 | 28.9 | 7300 | 9800 | 7910DB | 7910DF | 7910DT | 7910 | 0.157 |
| 38.5 | 40.0 | 6800 | 9100 | 7010DB | 7010DF | 7010DT | 7010 | 0.306 |
| 67.0 | 63.0 | 6300 | 8300 | 7210DB | 7210DF | 7210DT | 7210 | 0.457 |
| 60.5 | 57.0 | 5500 | 7300 | 7210BDB | 7210BDF | 7210BDT | 7210B | 0.466 |
| 121 | 104 | 5600 | 7500 | 7310DB | 7310DF | 7310DT | 7310 | 1.09 |
| 111 | 96.0 | 4900 | 6500 | 7310BDB | 7310BDF | 7310BDT | 7310B | 1.11 |
| 28.1 | 32.0 | 6700 | 8900 | 7911DB | 7911DF | 7911DT | 7911 | 0.214 |
| 50.5 | 52.5 | 6300 | 8400 | 7011DB | 7011DF | 7011DT | 7011 | 0.447 |
| 83.0 | 79.0 | 5700 | 7600 | 7211DB | 7211DF | 7211DT | 7211 | 0.600 |
| 75.0 | 72.0 | 5000 | 6600 | 7211BDB | 7211BDF | 7211BDT | 7211B | 0.612 |
| 139 | 123 | 5100 | 6800 | 7311DB | 7311DF | 7311DT | 7311 | 1.39 |
| 128 | 113 | 4500 | 5900 | 7311BDB | 7311BDF | 7311BDT | 7311B | 1.42 |