

## Angular Contact Ball Bearing

DLR Design Super precision angular contact ball bearings -**HCB7012-CDLR-T-P4S**



|                     |                           |
|---------------------|---------------------------|
| Designation         | <b>HCB7012-CDLR-T-P4S</b> |
| Main dimensions     |                           |
| d                   | 60                        |
| D                   | 95                        |
| B                   | 18                        |
| Basic load ratings  |                           |
| Dyn. Cr(KN)         | 40                        |
| Stat. Cor( kN)      | 22.7                      |
| Fatigue limit load  |                           |
| Cur N               | 1730                      |
| Limiting speeds     |                           |
| nG grease min       | 20000                     |
| nG oil min          | 32000                     |
| Dimensions          |                           |
| r min.              | 1.1                       |
| r1 min.             | 1.1                       |
| BN                  | 4.3                       |
| SN                  | 9.7                       |
| SB                  | 1.4                       |
| Contact angle       |                           |
| a °                 | 15                        |
| Mounting dimensions |                           |
| da h12              | 67                        |
| Da H12              | 88                        |
| ra max.             | <b>1</b>                  |
| ra1 max.            | 0.6                       |
| Preload force FV    |                           |
| L N                 | 106                       |
| M N                 | 379                       |
| H N                 | 794                       |
| Lift-off force KaE  |                           |
| L N                 | 315                       |
| M N                 | 1198                      |
| H N                 | 2651                      |
| Axial rigidity ca   |                           |
| L N/μm              | 54.4                      |
| M N/μm              | 92.2                      |
| H N/μm              | 130                       |
| Mass                |                           |
| m = kg              | 0.326                     |

## Spindle bearing

Spindle bearings HCB70/72/718/719..-EDLR, adjusted, matched pairs or sets, contact angle  $\alpha = 25^\circ$ , with ceramic balls, restricted tolerances, for direct oil feed via outer ring, with inserted O rings