

## Angular Contact Ball Bearing

DLR Design Super precision angular contact ball bearings -**HC7012-EDLR-T-P4S**



|                     |                          |
|---------------------|--------------------------|
| Designation         | <b>HC7012-EDLR-T-P4S</b> |
| Main dimensions     |                          |
| d                   | 60                       |
| D                   | 95                       |
| B                   | 18                       |
| Basic load ratings  |                          |
| Dyn. Cr(KN)         | 17.6                     |
| Stat. Cor( kN)      | 11.3                     |
| Fatigue limit load  |                          |
| Cur N               | 860                      |
| Limiting speeds     |                          |
| nG grease min       | 24000                    |
| nG oil min          | 36000                    |
| Dimensions          |                          |
| r min.              | 1.1                      |
| r1 min.             | 1.1                      |
| BN                  | 4.3                      |
| SN                  | 9.7                      |
| SB                  | 1.4                      |
| Contact angle       |                          |
| a °                 | 25                       |
| Mounting dimensions |                          |
| da h12              | 67                       |
| Da H12              | 88                       |
| ra max.             | <b>1</b>                 |
| ra1 max.            | 0.6                      |
| Preload force FV    |                          |
| L N                 | 73                       |
| M N                 | 219                      |
| H N                 | 438                      |
| Lift-off force KaE  |                          |
| L N                 | 209                      |
| M N                 | 638                      |
| H N                 | 1294                     |
| Axial rigidity ca   |                          |
| L N/μm              | 112                      |
| M N/μm              | 165                      |
| H N/μm              | 213                      |
| Mass                |                          |
| m = kg              | 0.404                    |

## 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