

## 6311-2Z/HC5C3WT



Hybrid ceramic single row deep groove ball bearings with seals on both sides have rings made of bearing steel and rolling elements made of bearing grade silicon nitride, which make the bearings electrically insulating. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out. The ceramic rolling elements not only provide protection from electric current damage but also, when compared to same-sized bearings with steel rolling elements, provide enhanced bearing performance, extended bearing service life, higher speed capability, high wear-resistance, high bearing stiffness, reduced risk of smearing and false brinelling, and less sensitivity to temperature gradients, making them suitable for use in difficult conditions and contaminated environments.

- Protected against electric current damage
- Integral sealing prolongs bearing service life
- Especially suited for use in difficult conditions and contaminated environments
- Typical benefits of single row deep groove ball bearings

### Dimensions

|                  |        |
|------------------|--------|
| Bore diameter    | 55 mm  |
| Outside diameter | 120 mm |
| Width            | 29 mm  |

### Performance

|                           |              |
|---------------------------|--------------|
| Basic dynamic load rating | 71.5 kN      |
| Basic static load rating  | 45 kN        |
| Reference speed           | 14 000 r/min |
| Limiting speed            | 8 000 r/min  |

### Properties

|                                      |                        |
|--------------------------------------|------------------------|
| Filling slots                        | Without                |
| Number of rows                       | 1                      |
| Locating feature, bearing outer ring | None                   |
| Bore type                            | Cylindrical            |
| Cage                                 | Sheet metal            |
| Matched arrangement                  | No                     |
| Radial internal clearance            | C3                     |
| Material, bearing                    | Hybrid (ceramic balls) |
| Coating                              | Without                |
| Sealing                              | Shield on both sides   |
| Sealing type                         | Non-contact            |
| Lubricant                            | Grease                 |
| Relubrication feature                | Without                |
| Logistics                            |                        |
| Product net weight                   | 1.25 kg                |
| eClass code                          | 23-05-08-01            |
| UNSPSC code                          | 31171504               |