

## 6004-2RSLTN9/HC5C3WT



Hybrid ceramic single row deep groove ball bearings with low-friction 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 low-friction seals provide better sealing effectiveness than shields and non-contact seals, thus providing significantly prolonged bearing service life, yet they can still operate at the same speeds as shields. 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
- Especially suited for use in difficult conditions and contaminated environments
- Typical benefits of single row deep groove ball bearings

### Dimensions

|                  |       |
|------------------|-------|
| Bore diameter    | 20 mm |
| Outside diameter | 42 mm |
| Width            | 12 mm |

### Performance

|                           |              |
|---------------------------|--------------|
| Basic dynamic load rating | 9.36 kN      |
| Basic static load rating  | 5 kN         |
| Reference speed           | 43 000 r/min |
| Limiting speed            | 19 000 r/min |

### Properties

|                                      |                        |
|--------------------------------------|------------------------|
| Filling slots                        | Without                |
| Number of rows                       | 1                      |
| Locating feature, bearing outer ring | None                   |
| Bore type                            | Cylindrical            |
| Cage                                 | Non-metallic           |
| Matched arrangement                  | No                     |
| Radial internal clearance            | C3                     |
| Material, bearing                    | Hybrid (ceramic balls) |
| Coating                              | Without                |
| Sealing                              | Seal on both sides     |
| Sealing type                         | Low-friction           |
| Lubricant                            | Grease                 |
| Relubrication feature                | Without                |
| Logistics                            |                        |
| Product net weight                   | 0.062 kg               |
| eClass code                          | 23-05-08-01            |
| UNSPSC code                          | 31171504               |