

Image may differ from product. See technical specification for details.

# 6311 M/C3VL0241

## INSOCOAT® deep groove ball bearing

INSOCOAT single row deep groove ball bearings feature an electrically insulating coating on the outside surfaces of either the inner or outer bearing ring. This keeps stray electric currents from passing through the bearings, protecting them against electrical erosion damage and helping prevent lubricant degradation resulting from electric current discharge. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. Also available on request with special sized bore and/or outside diameters, suitable for reworked shafts and housings.

- Coating protects against electrical erosion damage
- Reduced lubricant degradation resulting from electric current discharge
- Typical benefits of single row deep groove ball bearings

# Overview

## Dimensions

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

## Performance

| | |
|---|---|
| Basic dynamic load rating | 74.1 kN |
| Basic static load rating | 45 kN |
| Reference speed | 12 000 r/min |
| Limiting speed | 11 000 r/min |

## Properties

| | |
|---|---|
| Filling slots | Without |
| Number of rows | 1 |
| Locating feature, bearing outer ring | Without |
| Bore type | Cylindrical |
| Cage | Machined brass |
| Matched arrangement | No |
| Radial internal clearance | CN |
| Material, bearing | Bearing steel |
| Coating | Insulation coating on outer ring |
| Sealing | Without |
| Lubricant | None |
| Relubrication feature | Without |
| Indicative carbon footprint for new product | 5.6 kg $CO_2e$ |

## Logistics

| | |
|---|---|
| Product net weight | 1.53 kg |
| eClass code | 23-05-08-01 |
| UNSPSC code | 31171537 |

# Compatible products

## Mounting tool

| | |
|---|---|
| Bearing fitting tool kit | TMFT 36 |

| | |
|---|---|
| Bearing fitting tool kit, PRO version | TMFT 36/PRO |

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