



YEL 207-2F Insert bearing with an eccentric locking collar and extended inner ring

Insert bearing with an eccentric locking collar and extended inner ring

Insert bearings are based on sealed deep groove ball bearings. This variant is intended for use in applications where the direction of rotation is constant. It has an inner ring extended on both sides, with an eccentric locking collar, enabling quick and easy mounting onto the shaft.

- Quick and easy to mount onto the shaft
- Long service life
- Reduce noise and vibration levels

Overview

Dimensions

| | |
|-------------------|---------|
| Bore diameter | 35 mm |
| Outside diameter | 72 mm |
| Width, total | 51.1 mm |
| Width, inner ring | 37.6 mm |
| Width, outer ring | 19 mm |

Performance

| | |
|---------------------------|--|
| Basic dynamic load rating | 25.5 kN |
| Basic static load rating | 15.3 kN |
| Limiting speed | 5 300 r/min |
| Note | Limiting speed with shaft tolerance h6 |

Properties

| | |
|-------------------------------|--------------------------------|
| Retaining feature, inner ring | Eccentric collar |
| Bore type | Cylindrical |
| Rolling elements | Balls |
| Outer ring type | Spherical |
| Inner ring extension | On both sides |
| Cage | Non-metallic |
| Rubber seating ring | Without |
| Material, bearing | Bearing steel |
| Coating | Without |
| Sealing | Seal and flinger on both sides |

| | |
|-----------------------|-------------------|
| Sealing type | Contact, standard |
| Lubricant | Grease |
| Relubrication feature | With |

Technical Specification



Dimensions

| | | |
|------------------|-----------|--|
| d | 35 mm | Bore diameter |
| D | 72 mm | Outside diameter |
| B ₁ | 51.1 mm | Overall bearing width |
| B | 37.6 mm | Width of inner ring |
| C | 19 mm | Width of outer ring |
| d ₁ | ≈ 46.1 mm | Outside diameter of inner ring |
| d ₂ | 51.1 mm | Outside diameter of locking collar |
| B ₄ | 6.75 mm | Distance from side face to thread centre |
| r _{1,2} | min. 1 mm | Chamfer dimension of inner ring |
| s ₁ | 32.3 mm | Distance from locking device side face to raceway centre |

Calculation data

| | | |
|---------------------------|----------------|--|
| Basic dynamic load rating | C | 25.5 kN |
| Basic static load rating | C ₀ | 15.3 kN |
| Fatigue load limit | P _u | 0.655 kN |
| Limiting speed | | 5 300 r/min |
| | | Limiting speed with shaft tolerance h ₆ |
| Calculation factor | f ₀ | 14 |

Mass

| | |
|------|---------|
| Mass | 0.54 kg |
|------|---------|

Mounting information

| | | |
|---|----------------|----------|
| Set screw | G ₂ | M10x1 |
| Hexagonal key size for set screw | N | 5 mm |
| Recommended tightening torque for set screw | | 16.5 N·m |

Associated products

| | | |
|---------------------|--|-----------|
| Rubber seating ring | | RIS 207 A |
|---------------------|--|-----------|

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