



SKF YEL 205-100-2F

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.

Technical specifications

Dimensions	
Bore diameter	25.4 mm
Outside diameter	52 mm
Overall bearing width	44.4 mm
Width of inner ring	34.9 mm
Width of outer ring	15 mm
Outside diameter of inner ring	33.74 mm
Outside diameter of locking collar	37.4 mm
Distance from side face to thread centre	4.75 mm
Chamfer dimension of inner ring	0.6 mm
Distance from locking device side face to raceway centre	26.9 mm
Shaft diameter	25.4 mm
Width, total	44.4 mm
Width, inner ring	34.9 mm
Width, outer ring	15 mm

Calculation data	
Basic dynamic load rating	14 kN
Basic static load rating	7.8 kN
Fatigue load limit	0.335 kN
Limiting speed	7000 r/min
Calculation factor	Limiting speed with shaft tolerance h6 14

Mounting information	
Set screw	1/4-28 UNF
Hexagonal key size for set screw	3.175 mm
Recommended tightening torque for set screw	4 N·m

Associated products	
Rubber seating ring	RIS 205

Performance	
Basic dynamic load rating	14 kN
Basic static load rating	7.8 kN
Limiting speed	7000 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

Logistics	
Product net weight	0.238 kg
eClass code	23-05-08-02
UNSPSC code	31171536

SKF drawings