

YEL 205-100-2F

Insert bearings

Bearing data

[Tolerances,](#)

table 1, table 2,

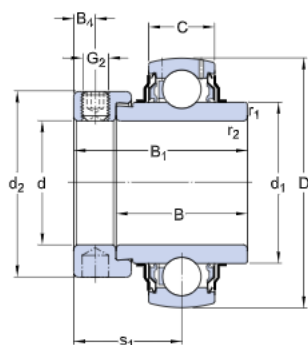
[Radial internal clearance,](#)

Standard inner ring, Other bearings

Design considerations

[Shaft tolerances](#)

Technical specification



DIMENSIONS

d	25.4 mm
D	52 mm
B ₁	44.4 mm
B	34.9 mm
C	15 mm
d ₁	≈ 33.74 mm
d ₂	37.4 mm
B ₄	4.75 mm
r _{1,2}	min. 0.6 mm
s ₁	26.9 mm

CALCULATION DATA

Basic dynamic load rating	C	14 kN
Basic static load rating	C ₀	7.8 kN
Fatigue load limit	P _u	0.335 kN
Limiting speed ¹⁾		7 000 r/min
Calculation factor	f ₀	14

MASS

Mass bearing	0.24 kg
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MOUNTING INFORMATION

Set screw	G ₂	1/4-28 UNF
Hexagonal key size for set screw	N	3.175 mm
Recommended tightening torque for set screw		4 N·m

ASSOCIATED PRODUCTS

Rubber seating ring	RIS 205
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More information

Product details	Engineering information	Tools
Designs and variants	Principles of rolling bearing selection	Bearing Select
Lubrication	General bearing knowledge	Engineering Calculator
Bearing data	Bearing selection process	SimPro Quick
Loads	Bearing failure and how to prevent it	Heater selection tool
Temperature limits		
Permissible speed		
Design considerations		
Mounting and dismounting		
Designation system		

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