



## 6005/VA201

Deep groove ball bearings, single row, for high temperature applications

Bearing data, Design considerations

Bearing interfaces

[Tolerances,](#)

[Tolerances and resultant fit](#)

Normal,

[Radial internal clearance,](#)

table,

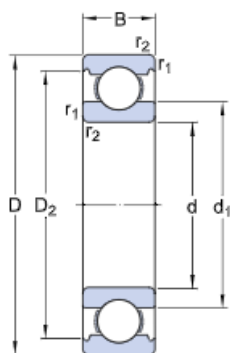
[Location of bearings,](#)

fits

### Technical specification

Running in required

Yes

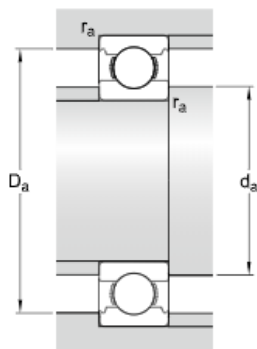


### DIMENSIONS

d	25 mm
D	47 mm
B	12 mm
d <sub>1</sub>	≈ 32 mm
D <sub>2</sub>	≈ 42.2 mm
r <sub>1,2</sub>	min. 0.6 mm

### ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 28.2 mm
D <sub>a</sub>	max. 43.8 mm
r <sub>a</sub>	max. 0.6 mm



## CALCULATION DATA

Basic dynamic load rating	C	11.9 kN
Basic static load rating	$C_0$	6.55 kN
Limiting speed		120 r/min
Limiting temperature	T	max. 250 °C

## MASS

Mass bearing		0.078 kg
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## Product details

[Deep groove ball bearings for high temperature applications](#)

[Insert bearings and ball bearing units for high temperature applications](#)

[Bearing data](#)

[Loads and selecting bearing size](#)

[Design considerations](#)

[Relubrication and running in](#)

[Mounting](#)

[Designation system](#)

## Engineering information

[Principles of rolling bearing selection](#)

[General bearing knowledge](#)

[Bearing selection process](#)

[Bearing interfaces](#)

[Seat tolerances for standard conditions](#)

[Sealing, mounting and dismounting](#)

[Bearing failure and how to prevent it](#)

## Tools

[Engineering Calculator](#)

[SimPro Quick](#)

[Heater selection tool](#)

[Rolling bearings mounting and dismounting instructions](#)

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