



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

# 3308 DMA

Double row angular contact ball bearing with two-piece inner ring

Double row angular contact ball bearings, with two-piece inner ring, correspond to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space than the equivalent pair of single row angular contact ball bearings. The two-piece

inner ring enables incorporation of a larger number of balls, with a larger contact angle, providing a high load carrying capacity, especially in the axial direction.

- Accommodate very high axial loads in both directions, radial loads, and tilting moments
- Suitable where a stiff bearing arrangement is required
- Separable design means outer ring with ball and cage assemblies can be mounted independently of the inner ring halves

### **Overview**

#### **Dimensions**

Bore diameter	40 mm
Outside diameter	90 mm
Width	36.5 mm
Contact angle	45 °

## Performance

Basic dynamic load rating	68.9 kN
Basic static load rating	57 kN
Reference speed	8 000 r/min
Limiting speed	7 000 r/min

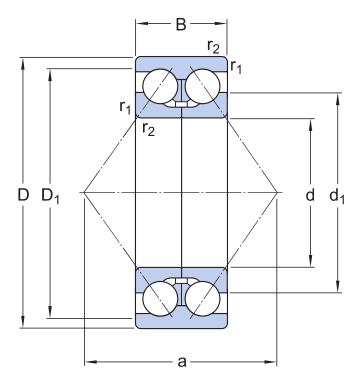
# **Properties**

Contact type	Normal contact (two-point contact)
Number of rows	2
Locating feature, bearing outer ring	None
Ring type	Two-piece inner ring and one-piece outer ring
Cage	Machined metal
Arrangement of contact angle (double-row bearing)	Back-to-back (O)
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

# Logistics

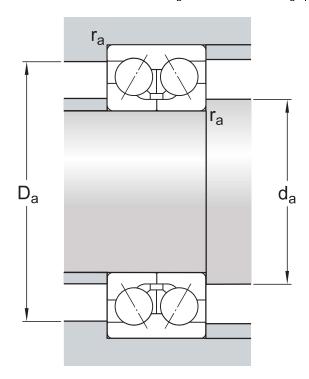
Product net weight	1.17 kg
eClass code	23-05-08-03
UNSPSC code	31171531

# **Technical specification**



### **Dimensions**

d	40 mm	Bore diameter
D	90 mm	Outside diameter
В	36.5 mm	Width
$d_1$	≈ 59.4 mm	Shoulder diameter inner ring for two-piece inner ring
D <sub>1</sub>	≈ 77.8 mm	Shoulder diameter outer ring
<b>r</b> 1,2	min. 1.5 mm	Chamfer dimension inner ring for two-piece inner ring
a	84 mm	Distance pressure point(s)



## **Abutment dimensions**

d <sub>a</sub>	min. 49 mm	Abutment diameter shaft
D <sub>a</sub>	max. 81 mm	Abutment diameter housing
r <sub>a</sub>	max. 1.5 mm	Fillet radius

## Calculation data

Basic dynamic load rating	С	68.9 kN
Basic static load rating	C <sub>0</sub>	57 kN
Fatigue load limit	$P_{\rm u}$	2.45 kN
Reference speed		8 000 r/min
Limiting speed		7 000 r/min
Calculation factor	k <sub>r</sub>	0.095
Limiting value	e	1.34
Calculation factor	Х	0.54
Calculation factor	Υ <sub>0</sub>	0.44
Calculation factor	Y <sub>1</sub>	0.47
Calculation factor	Y <sub>2</sub>	0.81

### **Tolerances and clearances**

#### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5
- Internal clearance: table, drawing no

#### **BEARING INTERFACES**

- Seat tolerances for standard conditions
- Tolerances and resultant fit

## **More Information**

Product details	Engineering information	Tools
Designs and variants		SKF Product select
General bearing specifications	Principles of rolling bearing selection	SimPro Quick
Loads	General bearing knowledge	Bearing Frequency Calculator
Temperature limits	Bearing selection process	LubeSelect for SKF greases
<u> </u>	Bearing interfaces	
Permissible speed	Seat tolerances for standard conditions	Heater selection tool
Designation system	Selecting internal clearance or preload	SKF mounting and dismounting instructions
	Lubrication	
	Sealing, mounting and dismounting	
	Bearing failure and how to prevent it	



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