



# PRODUCT DATASHEET

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MOTION & CONTROL  
**NSK**

**1309**

## Self-Aligning Ball Bearings



### Boundary Dimensions

d	45	mm	Bore diameter
D	100	mm	Outside diameter
B	25	mm	Width
r (min.)	1.5	mm	Chamfer dimension

### Basic Load Ratings

Cr	42000	N	Basic dynamic load rating
C0r	12700	N	Basic static load rating

### Speeds

Grease	6000	min-1	Grease lubrication
Oil (Oil-bath)	7500	min-1	Oil-bath lubrication

### Abutment and Fillet Dimensions

da (min.)	53	mm	Diameter of shaft abutment
Da (max.)	92	mm	Diameter of housing abutment
ra (max.)	1.5	mm	Radius of shaft or housing fillet

### Calculation factors

e	0.25	Constant
Y2	4	Axial load Factors
Y3	2.6	Axial load Factors
Y0	2.7	Axial load Factors

### Mass

Mass approx.	0.955	kg	Mass approx.
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