



PRODUCT DATASHEET

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22209EAE4

Spherical Roller Bearings

Parts Number

22209EAE4C3

Boundary Dimensions

d	45	mm	Bore diameter
D	85	mm	Outside diameter
B	23	mm	Width
r (min.)	1.1	mm	Chamfer dimension

Basic Load Ratings

Cr	118000	N	Basic dynamic load rating
C0r	111000	N	Basic static load rating

Speeds

Thermal Speed Rating (Oil-bath)	6300	min-1	Oil-bath lubrication subject to conditions outlined in ISO 15312
Mechanical (forced-circulation oil)	11000	min-1	Properly designed and controlled forced-circulation oil lubrication
Grease	6000	min-1	Grease lubrication
Oil (Oil-bath)	7500	min-1	Oil-bath lubrication

Abutment and Fillet Dimensions

da (min.)	52	mm	Diameter of shaft abutment
da (max.)	55	mm	Diameter of shaft abutment
Da (min.)	75	mm	Diameter of housing abutment
Da (max.)	78	mm	Diameter of housing abutment
ra (max.)	1	mm	Radius of shaft or housing fillet

Calculation factors

e	0.26	Constant
Y2	3.9	Axial load Factors
Y3	2.7	Axial load Factors
Y0	2.6	Axial load Factors

Mass

Mass approx.	0.55	kg	Mass approx.
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