



PRODUCT DATASHEET

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21314EAE4

Spherical Roller Bearings

Boundary Dimensions

d	70	mm	Bore diameter
D	150	mm	Outside diameter
B	35	mm	Width
r (min.)	2.1	mm	Chamfer dimension

Basic Load Ratings

Cr	310000	N	Basic dynamic load rating
C0r	325000	N	Basic static load rating

Speeds

Thermal Speed Rating (Oil-bath)	4300	min-1	Oil-bath lubrication subject to conditions outlined in ISO 15312
Mechanical (forced-circulation oil)	5600	min-1	Properly designed and controlled forced-circulation oil lubrication
Grease	3200	min-1	Grease lubrication
Oil (Oil-bath)	4000	min-1	Oil-bath lubrication

Abutment and Fillet Dimensions

da (min.)	82	mm	Diameter of shaft abutment
da (max.)	101	mm	Diameter of shaft abutment
Da (min.)	135	mm	Diameter of housing abutment
Da (max.)	138	mm	Diameter of housing abutment
ra (max.)	2	mm	Radius of shaft or housing fillet

Calculation factors

e	0.22	Constant
Y2	4.6	Axial load Factors
Y3	3.1	Axial load Factors
Y0	3	Axial load Factors

Mass

Mass approx.	3	kg	Mass approx.
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