



22309EAE4  
Spherical Roller Bearings

Boundary Dimensions

d	45	mm	Bore diameter
D	100	mm	Outside diameter
B	36	mm	Width
r (min.)	1.5	mm	Chamfer dimension

Basic Load Ratings

Cr	207000	N	Basic dynamic load rating
C0r	195000	N	Basic static load rating

Speeds

Thermal Speed Rating (Oil-bath)	5000	min-1	Oil-bath lubrication subject to conditions outlined in ISO 15312
Mechanical (forced-circulation oil)	8000	min-1	Properly designed and controlled forced-circulation oil lubrication
Grease	4500	min-1	Grease lubrication
Oil (Oil-bath)	5600	min-1	Oil-bath lubrication

Abutment and Fillet Dimensions

da (min.)	54	mm	Diameter of shaft abutment
da (max.)	60	mm	Diameter of shaft abutment
Da (min.)	86	mm	Diameter of housing abutment
Da (max.)	91	mm	Diameter of housing abutment
ra (max.)	1.5	mm	Radius of shaft or housing fillet

Calculation factors

e	0.34	Constant
Y2	2.9	Axial load Factors
Y3	2	Axial load Factors
Y0	1.9	Axial load Factors

Mass

Mass approx.	1.34	kg	Mass approx.
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