



PRODUCT DATASHEET

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MOTION & CONTROL
NSK



22220EAK4

Spherical Roller Bearings

Parts Number

22220EAK4C3

Boundary Dimensions

d	100	mm	Bore diameter
D	180	mm	Outside diameter
B	46	mm	Width
r (min.)	2.1	mm	Chamfer dimension

Basic Load Ratings

Cr	455000	N	Basic dynamic load rating
C0r	490000	N	Basic static load rating

Speeds

Thermal Speed Rating (Oil-bath)	3600	min-1	Oil-bath lubrication subject to conditions outlined in ISO 15312
Mechanical (forced-circulation oil)	4300	min-1	Properly designed and controlled forced-circulation oil lubrication
Grease	2800	min-1	Grease lubrication
Oil (Oil-bath)	3600	min-1	Oil-bath lubrication

Abutment and Fillet Dimensions

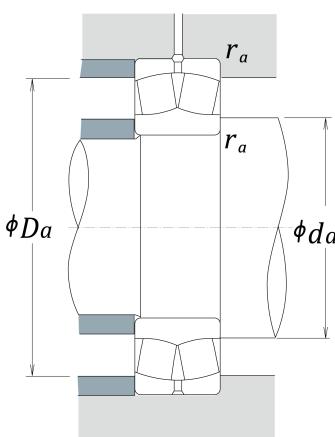
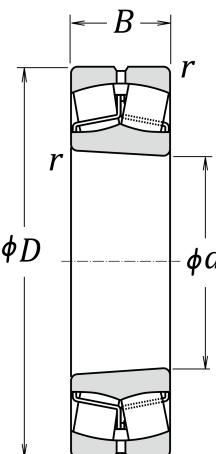
da (min.)	112	mm	Diameter of shaft abutment
da (max.)	119	mm	Diameter of shaft abutment
Da (min.)	160	mm	Diameter of housing abutment
Da (max.)	168	mm	Diameter of housing abutment
ra (max.)	2	mm	Radius of shaft or housing fillet

Calculation factors

e	0.24	Constant
Y2	4.3	Axial load Factors
Y3	2.9	Axial load Factors
Y0	2.8	Axial load Factors

Mass

Mass approx.	4.84	kg	Mass approx.
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Associated products

Adapter	H320X	Adapter
Withdrawal sleeve	AHX320	Withdrawal sleeve