



PRODUCT DATASHEET

Datasheet creation date: 2025/05/28 10:23 (UTC)

MOTION & CONTROL
NSK



22219EAE4

Spherical Roller Bearings

Boundary Dimensions

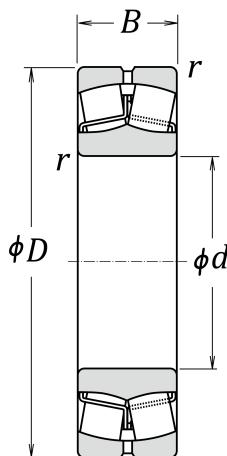
d	95	mm	Bore diameter
D	170	mm	Outside diameter
B	43	mm	Width
r (min.)	2.1	mm	Chamfer dimension

Basic Load Ratings

Cr	415000	N	Basic dynamic load rating
C0r	450000	N	Basic static load rating

Speeds

Thermal Speed Rating (Oil-bath)	3800	min-1	Oil-bath lubrication subject to conditions outlined in ISO 15312
Mechanical (forced-circulation oil)	4500	min-1	Properly designed and controlled forced-circulation oil lubrication
Grease	3000	min-1	Grease lubrication
Oil (Oil-bath)	3800	min-1	Oil-bath lubrication



Abutment and Fillet Dimensions

da (min.)	107	mm	Diameter of shaft abutment
da (max.)	115	mm	Diameter of shaft abutment
Da (min.)	152	mm	Diameter of housing abutment
Da (max.)	158	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.	4.04	kg	Mass approx.
--------------	------	----	--------------

