



PRODUCT DATASHEET

Datasheet creation date: 2025/05/28 7:51 (UTC)



22208EAKE4

Spherical Roller Bearings

Boundary Dimensions

d	40	mm	Bore diameter
D	80	mm	Outside diameter
B	23	mm	Width
r (min.)	1.1	mm	Chamfer dimension

Basic Load Ratings

Cr	113000	N	Basic dynamic load rating
C0r	99500	N	Basic static load rating

Speeds

Thermal Speed Rating (Oil-bath)	7100	min-1	Oil-bath lubrication subject to conditions outlined in ISO 15312
Mechanical (forced-circulation oil)	12000	min-1	Properly designed and controlled forced-circulation oil lubrication
Grease	6700	min-1	Grease lubrication
Oil (Oil-bath)	8500	min-1	Oil-bath lubrication

Abutment and Fillet Dimensions

da (min.)	47	mm	Diameter of shaft abutment
da (max.)	49	mm	Diameter of shaft abutment
Da (min.)	70	mm	Diameter of housing abutment
Da (max.)	73	mm	Diameter of housing abutment
ra (max.)	1	mm	Radius of shaft or housing fillet

Calculation factors

e	0.28	Constant
Y2	3.6	Axial load Factors
Y3	2.4	Axial load Factors
Y0	2.4	Axial load Factors

Mass

Mass approx.	0.5	kg	Mass approx.
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