



22311EAE4
Spherical Roller Bearings

Parts Number

22311EAE4C3

Boundary Dimensions

d	55	mm	Bore diameter
D	120	mm	Outside diameter
B	43	mm	Width
r (min.)	2	mm	Chamfer dimension

Basic Load Ratings

Cr	292000	N	Basic dynamic load rating
C0r	292000	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)	6000	min-1	Properly designed and controlled forced-circulation oil lubrication
Grease	3800	min-1	Grease lubrication
Oil (Oil-bath)	4800	min-1	Oil-bath lubrication

Abutment and Fillet Dimensions

da (min.)	65	mm	Diameter of shaft abutment
da (max.)	73	mm	Diameter of shaft abutment
Da (min.)	103	mm	Diameter of housing abutment
Da (max.)	110	mm	Diameter of housing abutment
ra (max.)	2	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.	2.3	kg	Mass approx.
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