



# PRODUCT DATASHEET

Datasheet creation date: 2025/05/28 10:24 (UTC)



## 22220EAKE4

### Spherical Roller Bearings

#### 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.
--------------	------	----	--------------

#### Associated products

Adapter	H320X	Adapter
Withdrawal sleeve	AHX320	Withdrawal sleeve

