



FAG

**24084-BEA-XL-K30-MB1-C3**

## Spherical Roller Bearing

Spherical roller bearings 240...-BEA-K30, main dimensions to DIN 635-2, with tapered bore, taper 1:30

X-life

## Technical information



## Your current product variant

Design	BEA	With lose center lip ring
Bore type	K30	Tapered, taper 1:30
Cage	MB1	Solid brass cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	420 mm	Bore diameter
D	620 mm	Outside diameter
B	200 mm	Width
$C_r$	4.600.000 N	Basic dynamic load rating, radial
$C_{0r}$	8.500.000 N	Basic static load rating, radial
$C_{ur}$	720.000 N	Fatigue load limit, radial
$n_G$	890 1/min	Limiting speed
$n_{gr}$	465 1/min	Reference speed
$\approx m$	202,5 kg	Weight

## Mounting dimensions

$d_{a \min}$	438 mm	Minimum diameter shaft shoulder
$D_{a \max}$	602 mm	Maximum diameter of housing shoulder
$r_{a \max}$	4 mm	Maximum recess radius



## Dimensions

$r_{\min}$	5 mm	Minimum chamfer dimension
$D_1$	529,4 mm	Bore diameter outer ring
$d_s$	12,5 mm	Diameter lubrication hole
$n_s$	23,5 mm	Width of lubricating groove

## Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	200 °C	Operating temperature max.

## Calculation factors

$e$	0,29	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,32	Dynamic axial load factor
$Y_2$	3,45	Dynamic axial load factor
$Y_0$	2,26	Static axial load factor

## Additional information

AH24080-H

Withdrawal sleeve

## Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Large bearing



Static angular error and misalignment



Dynamic angular error and misalignment