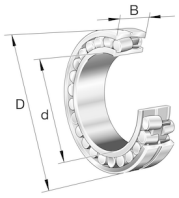


FAG

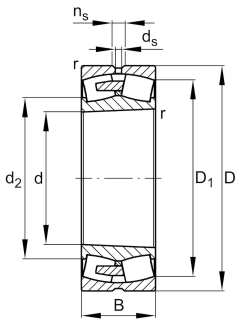
24080-BEA-XL-K30-MB1-C3

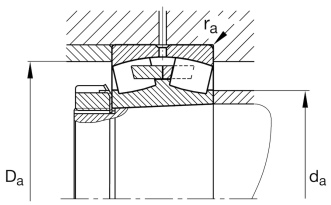
Spherical Roller Bearing

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	Standard	

Main Dimensions & Performance Data

d	400 mm	Bore diameter
D	600 mm	Outside diameter
B	200 mm	Width
C_r	4.500.000 N	Basic dynamic load rating, radial
C_{0r}	8.100.000 N	Basic static load rating, radial
C_{ur}	680.000 N	Fatigue load limit, radial
n_G	920 1/min	Limiting speed
$n_{\vartheta r}$	495 1/min	Reference speed
≈m	195,3 kg	Weight

Mounting dimensions

$d_{a\ min}$	418 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	582 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	0,3	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2,23	Dynamic axial load factor
Y_2	3,32	Dynamic axial load factor
Y_0	2,18	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