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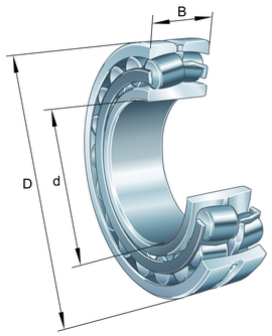
SCHAEFFLER



FAG

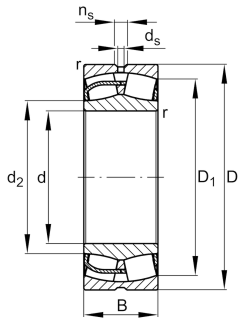
24152-BE-XL-C5

Spherical Roller Bearing

Spherical roller bearing 241..-BE-XL, symmetric with rib washer

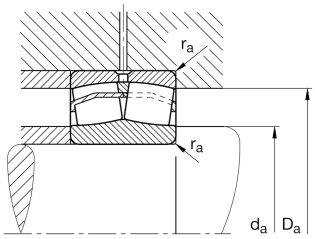
X-life

Technical information



Your current product variant

Design	BE	With lose center lip ring
Bore type	Z	Cylindrical
Cage	JPB	Sheet metal cage
Radial internal clearance	C5 (Group 5)	Internal clearance larger than C4
Relubrication facility	Standard	



Main Dimensions & Performance Data

d	260 mm	Bore diameter
D	440 mm	Outside diameter
B	180 mm	Width
C_r	3.150.000 N	Basic dynamic load rating, radial
C_{0r}	4.900.000 N	Basic static load rating, radial
C_{ur}	400.000 N	Fatigue load limit, radial
n_G	1.290 1/min	Limiting speed
$n_{\vartheta r}$	560 1/min	Reference speed
≈m	109,46 kg	Weight

The data sheet only contains an overview of the technical data of the selected product. Please refer to the additional documentation for this product. For further information, please use the following link on our website: Contact form

Mounting dimensions

$d_{a\ min}$	277 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	423 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	3 mm	Maximum recess radius

Dimensions

r_{min}	4 mm	Minimum chamfer dimension
D_1	370,6 mm	Bore diameter outer ring
d_2	292,2 mm	Raceway diameter of the inner ring
d_s	8 mm	Diameter lubrication hole
n_s	15 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0,4	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	1,67	Dynamic axial load factor
Y_2	2,49	Dynamic axial load factor
Y_0	1,63	Static axial load factor

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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

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