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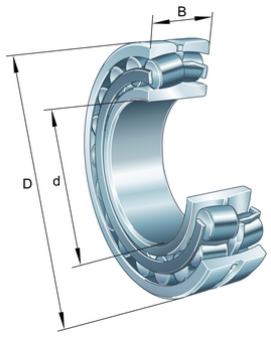
SCHAEFFLER



FAG

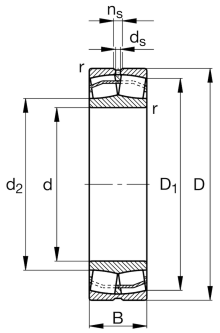
X-life

23122-E1-XL-TVPB

Spherical Roller Bearing

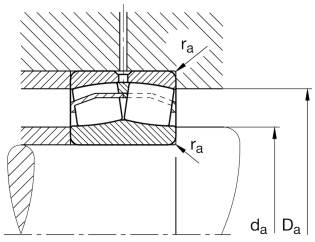
Spherical roller bearings 231..-E1, main dimensions to DIN 635-2

Technical information



Your current product variant

Design	E1	Without central rip
Bore type	Z	Cylindrical
Cage	TVPB	Plastic cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication	Standard	



Main Dimensions & Performance Data

d	110 mm	Bore diameter
D	180 mm	Outside diameter
B	56 mm	Width
C_r	530.000 N	Basic dynamic load rating, radial
C_{0r}	680.000 N	Basic static load rating, radial
C_{ur}	62.000 N	Fatigue load limit, radial
n_G	3.700 1/min	Limiting speed
$n_{\vartheta r}$	2.550 1/min	Reference speed
≈m	5,273 kg	Weight

Mounting dimensions

$d_{a\ min}$	121 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	169 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2 mm	Maximum recess radius

Dimensions

r_{min}	2 mm	Minimum chamfer dimension
D_1	160 mm	Bore diameter outer ring
d_2	124,6 mm	Raceway diameter of the inner ring
d_s	4,8 mm	Diameter lubrication hole
n_s	9,5 mm	Width of lubricating groove

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	120 °C	Operating temperature max.

Calculation factors

e	0,28	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2,39	Dynamic axial load factor
Y_2	3,56	Dynamic axial load factor
Y_0	2,34	Static axial load factor

Characteristics

Radial load

Axial load in one direction

Axial load in two directions


Grease Lubrication


Oil Lubrication


Not sealed


Static angular error and misalignment


Dynamic angular error and misalignment