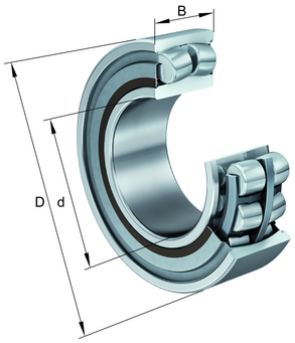


FAG

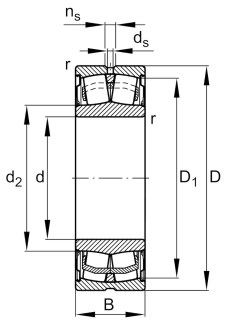
X-life

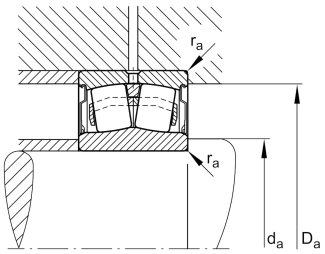
WS22212-E1-XL-2VSR-H40-L055-C4

Spherical Roller Bearing

Spherical roller bearing WS222..-E1-XL-2VSR-H40, symmetric with cage guidance ring

Technical information





Your current product variant

Design	E1	Without central rip
Bore type	Z	Cylindrical
Cage	JPA	Sheet metal cage
Radial internal clearance	C4 (Group 4)	Internal clearance larger than C3
Relubrication facility	H40	Without lubricating groove and holes
Sealing	2VSR	Seals on both sides, high temperature
Sealing - excess width	WS	Sealing - excess width

Main Dimensions & Performance Data

d	60 mm	Bore diameter
D	110 mm	Outside diameter
B	34 mm	Width
C_r	160.000 N	Basic dynamic load rating, radial
C_{0r}	155.000 N	Basic static load rating, radial
C_{ur}	20.700 N	Fatigue load limit, radial
n_G	2.030 1/min	Limiting speed
≈m	1,29 kg	Weight

Mounting dimensions

$d_{a\ min}$	67,6 mm	Minimum diameter shaft shoulder
$D_{a\ max}$	101 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	1,5 mm	Maximum recess radius

Dimensions

r_{min}	1,5 mm	Minimum chamfer dimension
D_1	100,7 mm	Bore diameter outer ring
d_2	67,6 mm	Raceway diameter of the inner ring

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	180 °C	Operating temperature max.

Calculation factors

e	0,23	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2,98	Dynamic axial load factor
Y_2	4,44	Dynamic axial load factor
Y_0	2,92	Static axial load factor