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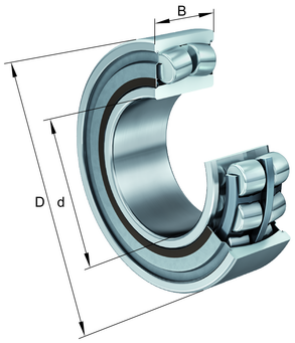
18.05.2026, 21:36:38 UTC

SCHAEFFLER



FAG

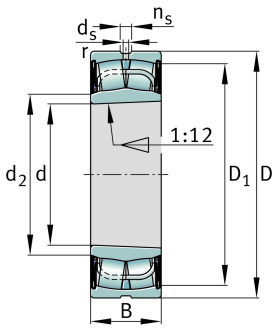
X-life

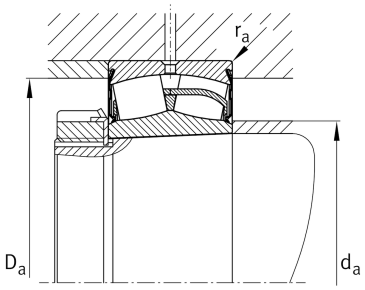
WS22210-E1-XL-K-2RSR

Spherical Roller Bearing

Spherical roller bearing WS222..-E1-XL-K-2RSR, symmetric with cage guidance ring

Technical information





Your current product variant

Design	E1	Without central rip
Bore type	K	Tapered, taper 1:12
Cage	JPA	Sheet metal cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication	Standard	
Type of Sealing	2RSR	Seals on both sides, normal temperature
Sealing - excess width	WS	Sealing - excess width

Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	28 mm	Width
C_r	109.000 N	Basic dynamic load rating, radial
C_{0r}	107.000 N	Basic static load rating, radial
C_{ur}	14.600 N	Fatigue load limit, radial
n_G	2.440 1/min	Limiting speed
≈m	0,67 kg	Weight

Mounting dimensions

$d_{a\ min}$	56 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	56 mm	Maximum diameter of shaft shoulder
$D_{a\ max}$	83,1 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	1 mm	Maximum recess radius
$d_{b\ min}$	55 mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	10 mm	Minimum cavity width of the sleeve

Dimensions

r_{min}	1,1 mm	Minimum chamfer dimension
D_1	83,1 mm	Bore diameter outer ring
d_2	56 mm	Raceway diameter of the inner ring
d_s	3,2 mm	Diameter lubrication hole
n_s	4,8 mm	Width of lubricating groove

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	100 °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	2,95	Dynamic axial load factor
Y_2	4,4	Dynamic axial load factor
Y_0	2,89	Static axial load factor

Additional information

	H2210-T-WS	Adapter sleeve
	AH2210-WS	Withdrawal sleeve

Characteristics

Radial load

Axial load in one direction

Axial load in two directions

Lifetime lubrication, freedom from maintenance


Grease Lubrication


Sealed on both sides


Static angular error and misalignment


Dynamic angular error and misalignment