



FAG

WS22224-E1-XL-2RSR

Spherical Roller Bearing

Sealed spherical roller bearings WS222..-E1, lip seals on both sides, for continuous casting machines

X-life

Technical information



Your current product variant

Design	E1	Without central rip
Bore type	Z	Cylindrical
Cage	JPA	Sheet metal cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	
Sealing	2RSR	Seals on both sides, normal temperature
Sealing - excess width	WS	Sealing - excess width

Main Dimensions & Performance Data

d	120 mm	Bore diameter
D	215 mm	Outside diameter
B	69 mm	Width
C_r	640.000 N	Basic dynamic load rating, radial
C_{0r}	740.000 N	Basic static load rating, radial
C_{ur}	73.000 N	Fatigue load limit, radial
n_G	920 1/min	Limiting speed
$\approx m$	9,992 kg	Weight



Mounting dimensions

$d_{a \min}$	132 mm	Minimum diameter shaft shoulder
$D_{a \max}$	203,4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius

Dimensions

r_{\min}	2,1 mm	Minimum chamfer dimension
D_1	203,4 mm	Bore diameter outer ring
d_2	136,8 mm	Raceway diameter of the inner ring
d_s	6,3 mm	Diameter lubrication hole
n_s	12,2 mm	Width of lubricating groove

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	100 °C	Operating temperature max.

Calculation factors

e	0,25	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,71	Dynamic axial load factor
Y_2	4,04	Dynamic axial load factor
Y_0	2,65	Static axial load factor



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