



FAG

**WS22210-E1-XL-2VSR-H40-C4**

## Spherical Roller Bearing

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

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	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 &amp; 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
$\approx m$	0,72 kg	Weight



### Mounting dimensions

$d_{a \min}$	56 mm	Minimum diameter shaft shoulder
$D_{a \max}$	83,1 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum recess radius

### 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

### Temperature range

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

### Calculation factors

$e$	0,23	Limiting value of $F_a/F_r$ 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