



FAG

**WS22218-E1-XL-2VSR-C4**

Spherical Roller Bearing

Spherical roller bearing WS222..-E1-XL-2VSR, 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	Standard	
Sealing	2VSR	Seals on both sides, high temperature
Sealing - excess width	WS	Sealing - excess width

## Main Dimensions &amp; Performance Data

d	90 mm	Bore diameter
D	160 mm	Outside diameter
B	48 mm	Width
$C_r$	345.000 N	Basic dynamic load rating, radial
$C_{0r}$	375.000 N	Basic static load rating, radial
$C_{ur}$	43.500 N	Fatigue load limit, radial
$n_G$	1.300 1/min	Limiting speed
$\approx m$	3,8 kg	Weight



### Mounting dimensions

$d_{a \min}$	101 mm	Minimum diameter shaft shoulder
$D_{a \max}$	149 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius

### Dimensions

$r_{\min}$	2 mm	Minimum chamfer dimension
$D_1$	146,7 mm	Bore diameter outer ring
$d_2$	101,4 mm	Raceway diameter of the inner ring
$d_s$	3,2 mm	Diameter lubrication hole
$n_s$	6,5 mm	Width of lubricating groove

### 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
$Y_1$	2,9	Dynamic axial load factor
$Y_2$	4,31	Dynamic axial load factor
$Y_0$	2,83	Static axial load factor



### Characteristics

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-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Sealed on both sides
-  Static angular error and misalignment
-  Dynamic angular error and misalignment