



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 & 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