

**FAG****222SM90-TVPA**

Spherical Roller Bearing

Spherical roller bearings 222SM, Split spherical roller bearings

Technical information

**Your current product variant**

Design	E1	Without central rip
Bore type	Z	Cylindrical
Cage	TVPA	Plastic cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	
Splitted	SM	Split bearing metric

Main Dimensions & Performance Data

d	90 mm	Bore diameter
D	180 mm	Outside diameter
C	46 mm	Width, outer ring
C_r	285.000 N	Basic dynamic load rating, radial
C_{0r}	360.000 N	Basic static load rating, radial
C_{ur}	33.000 N	Fatigue load limit, radial
n_G	1.820 1/min	Limiting speed
$F_{a\ max}$	7.600 N	Maximum axial load
$\approx m$	7 kg	Weight

Mounting dimensions

M_i	14 Nm	Tightening torque clamping screw
M_a	14 Nm	Tightening torque clamping screw



Dimensions

r_{\min}	2,1 mm	Minimum chamfer dimension
d_1	90 mm	Bore diameter IR/WS
B	76 mm	Width inner ring

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °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

Additional information

22220K	Bearing designation
H320	Adapter sleeve
SNV180	Housing



Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Split
-  Static angular error and misalignment
-  Dynamic angular error and misalignment