

**FAG****222SM70-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	70 mm	Bore diameter
D	140 mm	Outside diameter
C	33 mm	Width, outer ring
C_r	180.000 N	Basic dynamic load rating, radial
C_{0r}	226.000 N	Basic static load rating, radial
C_{ur}	21.800 N	Fatigue load limit, radial
n_G	2.340 1/min	Limiting speed
$F_{a \max}$	5.400 N	Maximum axial load
$\approx m$	3 kg	Weight

Mounting dimensions

M_i	8,5 Nm	Tightening torque clamping screw
M_a	4 Nm	Tightening torque clamping screw



Dimensions

r_{\min}	2 mm	Minimum chamfer dimension
d_1	70 mm	Bore diameter IR/WS
B	62 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	2,95	Dynamic axial load factor
Y_2	4,4	Dynamic axial load factor
Y_0	2,89	Static axial load factor

Additional information

22216K	Bearing designation
H316	Adapter sleeve
SNV140	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