

FAG

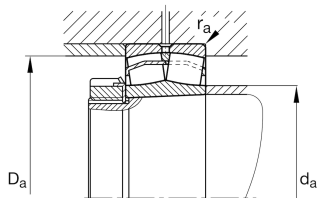
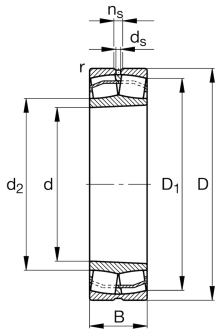
X-life

21309-E1-XL-K-TVPB

Spherical Roller Bearing

Spherical roller bearings 213...E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

Technical information



Your current product variant

Design	E1	Without central rip
Bore type	K	Tapered, taper 1:12
Cage	TVPB	Plastic cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	

Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
C _r	129.000 N	Basic dynamic load rating, radial
C _{0r}	130.000 N	Basic static load rating, radial
C _{ur}	17.700 N	Fatigue load limit, radial
n _G	9.000 1/min	Limiting speed
n _{gr}	4.750 1/min	Reference speed
m	0,902 kg	Weight



Mounting dimensions

$d_{a \min}$	54 mm	Minimum diameter shaft shoulder
$D_{a \max}$	91 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1,5 mm	Maximum recess radius
$B_{a \min}$	5 mm	Minimum cavity width of the sleeve
$d_{a \max}$	67 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	50 mm	Minimum cavity diameter of the sleeve

Dimensions

$r_{\min}$	1,5 mm	Minimum chamfer dimension
D_1	89,8 mm	Bore diameter outer ring
d_2	67,6 mm	Raceway diameter of the inner ring
d_s	3,2 mm	Diameter lubrication hole
n_s	4,8 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0,21	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	3,17	Dynamic axial load factor
Y_2	4,72	Dynamic axial load factor
Y_0	3,1	Static axial load factor

Additional information

H309	Adapter sleeve
AH309	Withdrawal sleeve



Characteristics

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