



FAG

22216-E1A-XL-K-M

Spherical Roller Bearing

Spherical roller bearing 222...-E1A-XL-K-M,
symmetric 2 outer ribs

X-life

Technical information



Your current product variant

Design	E1A	Without central rip
Bore type	K	Tapered, taper 1:12
Cage	M	Brass Cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	

Main Dimensions & Performance Data

d	80 mm	Bore diameter
D	140 mm	Outside diameter
B	33 mm	Width
C _r	250.000 N	Basic dynamic load rating, radial
C _{0r}	270.000 N	Basic static load rating, radial
C _{ur}	34.500 N	Fatigue load limit, radial
n _G	6.200 1/min	Limiting speed
n _{gr}	3.550 1/min	Reference speed
m	2,037 kg	Weight



Mounting dimensions

$d_{a \min}$	91 mm	Minimum diameter shaft shoulder
$D_{a \max}$	129 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius
$d_{a \max}$	94 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	85 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	12 mm	Minimum cavity width of the sleeve

Dimensions

r_{\min}	2 mm	Minimum chamfer dimension
D_1	126,8 mm	Bore diameter outer ring
d_2	94,9 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}	200 °C	Operating temperature max.

Calculation factors

e	0,22	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	3,14	Dynamic axial load factor
Y_2	4,67	Dynamic axial load factor
Y_0	3,07	Static axial load factor

Additional information

H316	Adapter sleeve
AH316	Withdrawal sleeve



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Dynamic angular error and misalignment