



FAG

22312-E1A-XL-K-M-C3

Spherical Roller Bearing

Spherical roller bearing 223...-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	C3 (Group 3)	Internal clearance larger than CN
Relubrication	Standard	

Main Dimensions & Performance Data

d	60 mm	Bore diameter
D	130 mm	Outside diameter
B	46 mm	Width
C _r	310.000 N	Basic dynamic load rating, radial
C _{0r}	310.000 N	Basic static load rating, radial
C _{ur}	29.000 N	Fatigue load limit, radial
n _G	5.400 1/min	Limiting speed
n _{gr}	4.200 1/min	Reference speed
m	2,875 kg	Weight



Mounting dimensions

$d_{a \min}$	72 mm	Minimum diameter shaft shoulder
$D_{a \max}$	118 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius
$d_{a \max}$	74 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	66 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	5 mm	Minimum cavity width of the sleeve

Dimensions

r_{\min}	2,1 mm	Minimum chamfer dimension
D_1	110,1 mm	Bore diameter outer ring
d_2	74,8 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	0,35	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	1,91	Dynamic axial load factor
Y_2	2,85	Dynamic axial load factor
Y_0	1,87	Static axial load factor

Additional information

H2312	Adapter sleeve
AHX2312	Withdrawal sleeve