

**FAG****23040-E1A-XL-M-H151B** [↗](#)

Spherical Roller Bearing

Spherical roller bearings 230..-E1A, main dimensions to DIN 635-2

X-life

Technical information



Your current product variant

Design	E1A	Without central rip
Bore type	Z	Cylindrical
Cage	M	Brass Cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	
Locating feature, bearing outer ring	H151B	2 Locking features, bearing outer ring

Main Dimensions & Performance Data

d	200 mm	Bore diameter
D	310 mm	Outside diameter
B	82 mm	Width
C_r	1.270.000 N	Basic dynamic load rating, radial
C_{0r}	1.800.000 N	Basic static load rating, radial
C_{ur}	206.000 N	Fatigue load limit, radial
n_G	2.330 1/min	Limiting speed
n_{gr}	1.550 1/min	Reference speed
m	22,328 kg	Weight



Mounting dimensions

$d_{a \min}$	210,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	299,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius

Dimensions

r_{\min}	2,1 mm	Minimum chamfer dimension
D_1	281,6 mm	Bore diameter outer ring
d_s	8 mm	Diameter lubrication hole
n_s	15 mm	Width of lubricating groove

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	200 °C	Operating temperature max.

Calculation factors

e	0,23	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



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