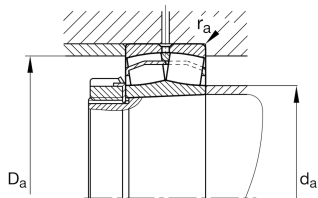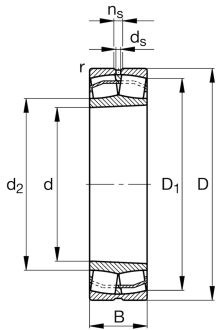**FAG**

X-life

22318-E1-XL-K-C3

Spherical Roller Bearing

Spherical roller bearings 223..-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	JPA	Sheet metal cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	90 mm	Bore diameter
D	190 mm	Outside diameter
B	64 mm	Width
C_r	610,000 N	Basic dynamic load rating, radial
C_{0r}	630,000 N	Basic static load rating, radial
C_{ur}	56,000 N	Fatigue load limit, radial
n_G	3,850 1/min	Limiting speed
$n_{\vartheta r}$	3,000 1/min	Reference speed
$\approx m$	8.307 kg	Weight

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product. For further information you can use the contact form on our website

Mounting dimensions

$d_{a\,min}$	104	mm	Minimum diameter shaft shoulder
$d_{a\,max}$	110	mm	Maximum diameter of shaft shoulder
$D_{a\,max}$	176	mm	Maximum diameter of housing shoulder
$r_{a\,max}$	2.5	mm	Maximum recess radius
$d_{b\,min}$	100	mm	Minimum cavity diameter of the sleeve
$B_{a\,min}$	6	mm	Minimum cavity width of the sleeve

Dimensions

r_{min}	3	mm	Minimum chamfer dimension
D_1	162.5	mm	Bore diameter outer ring
d_2	110.2	mm	Raceway diameter of the inner ring
d_s	6.3	mm	Diameter lubrication hole
n_s	12.2	mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0.33	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	2.03	Dynamic axial load factor
Y_2	3.02	Dynamic axial load factor
Y_0	1.98	Static axial load factor

Additional information

H2318	Adapter sleeve
AHX2318	Withdrawal sleeve

Characteristics

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