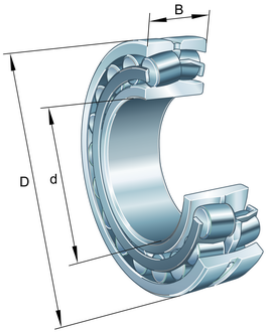
View product details on medias

10.07.2026, 14:11:39 KST

SCHAEFFLER



FAG

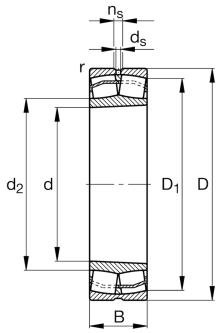
X-life

22316-E1-XL-K

Spherical Roller Bearing

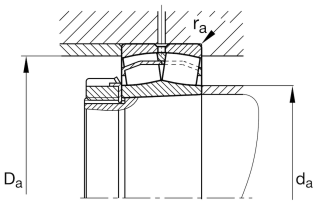
Spherical roller bearings 223..-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

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	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	



Main Dimensions & Performance Data

d	80 mm	Bore diameter
D	170 mm	Outside diameter
B	58 mm	Width
C_r	495.000 N	Basic dynamic load rating, radial
C_{0r}	510.000 N	Basic static load rating, radial
C_{ur}	46.500 N	Fatigue load limit, radial
n_G	4.250 1/min	Limiting speed
$n_{\vartheta r}$	3.400 1/min	Reference speed
≈m	6,132 kg	Weight

Mounting dimensions

$d_{a\ min}$	92 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	98 mm	Maximum diameter of shaft shoulder
$D_{a\ max}$	158 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2,1 mm	Maximum recess radius
$d_{b\ min}$	88 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	145,1 mm	Bore diameter outer ring
d_2	98,3 mm	Raceway diameter of the inner ring
d_s	4,8 mm	Diameter lubrication hole
n_s	9,5 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0,34	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y_1	1,99	Dynamic axial load factor
Y_2	2,96	Dynamic axial load factor
Y_0	1,94	Static axial load factor

Additional information

	H2316	Adapter sleeve
	AHX2316	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