



FAG

**22316-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 &amp; Performance Data

d	80 mm	Bore diameter
D	170 mm	Outside diameter
B	58 mm	Width
C <sub>r</sub>	495.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	510.000 N	Basic static load rating, radial
C <sub>ur</sub>	46.500 N	Fatigue load limit, radial
n <sub>G</sub>	4.250 1/min	Limiting speed
n <sub>gr</sub>	3.400 1/min	Reference speed
m	6,098 kg	Weight



### Mounting dimensions

$d_{a \min}$	92 mm	Minimum diameter shaft shoulder
$D_{a \max}$	158 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius
$d_{a \max}$	98 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	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 $F_a/F_r$ 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