

**FAG****23228-E1A-XL-M-C4**

Spherical Roller Bearing

Spherical roller bearings 232...-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	C4 (Group 4)	Internal clearance larger than C3
Relubrication facility	Standard	

Main Dimensions & Performance Data

d	140 mm	Bore diameter
D	250 mm	Outside diameter
B	88 mm	Width
C_r	1.090.000 N	Basic dynamic load rating, radial
C_{0r}	1.400.000 N	Basic static load rating, radial
C_{ur}	116.000 N	Fatigue load limit, radial
n_G	2.600 1/min	Limiting speed
n_{gr}	1.550 1/min	Reference speed
$\approx m$	18,359 kg	Weight

Mounting dimensions

$d_{a \min}$	154 mm	Minimum diameter shaft shoulder
$D_{a \max}$	236 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum recess radius



Dimensions

r_{min}	3 mm	Minimum chamfer dimension
D_1	216 mm	Bore diameter outer 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 F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,04	Dynamic axial load factor
Y_2	3,04	Dynamic axial load factor
Y_0	2	Static axial load factor

Characteristics

-  F_r Radial load
-  F_a Axial load in one direction
-  F_a Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Static angular error and misalignment
-  Dynamic angular error and misalignment