



FAG

23034-E1-XL-K-TVPB-C4

Spherical Roller Bearing

Spherical roller bearings 230...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Technical information



Your current product variant

Design	E1	Without central rip
Bore type	K	Tapered, taper 1:12
Cage	TVPB	Plastic cage
Radial internal clearance	C4 (Group 4)	Internal clearance larger than C3
Relubrication facility	Standard	

Main Dimensions & Performance Data

d	170 mm	Bore diameter
D	260 mm	Outside diameter
B	67 mm	Width
C_r	880.000 N	Basic dynamic load rating, radial
C_{0r}	1.230.000 N	Basic static load rating, radial
C_{ur}	151.000 N	Fatigue load limit, radial
n_G	2.800 1/min	Limiting speed
n_{gr}	1.890 1/min	Reference speed
$\approx m$	12,54 kg	Weight



Mounting dimensions

$d_{a \min}$	180,2 mm	Minimum diameter shaft shoulder
$D_{a \max}$	249,8 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius
$B_{a \min}$	8 mm	Minimum cavity width of the sleeve
$d_{a \max}$	189 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	179 mm	Minimum cavity diameter of the sleeve

Dimensions

r_{\min}	2,1 mm	Minimum chamfer dimension
D_1	237,2 mm	Bore diameter outer ring
d_2	189,8 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}	120 °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	2,98	Dynamic axial load factor
Y_2	4,44	Dynamic axial load factor
Y_0	2,92	Static axial load factor

Additional information

H3034	Adapter sleeve
AH3034	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