

FAG

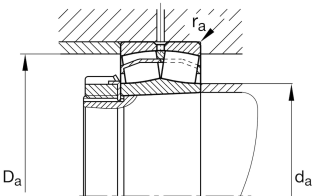
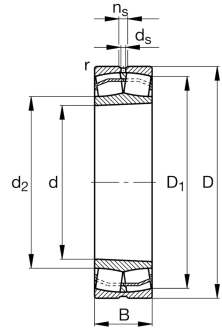
X-life

23024-E1-XL-K-TVPB

Spherical Roller Bearing

Spherical roller bearings 230...-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	TVPB	Plastic cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication	Standard	

Main Dimensions & Performance Data

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	46 mm	Width
C _r	430.000 N	Basic dynamic load rating, radial
C _{0r}	580.000 N	Basic static load rating, radial
C _{ur}	60.000 N	Fatigue load limit, radial
n _G	3.950 1/min	Limiting speed
n _{gr}	2.800 1/min	Reference speed
≈m	3,705 kg	Weight



Mounting dimensions

$d_{a \min}$	128,8 mm	Minimum diameter shaft shoulder
$D_{a \max}$	171,2 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius
$B_{a \min}$	7 mm	Minimum cavity width of the sleeve
$d_{a \max}$	133 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	127 mm	Minimum cavity diameter of the sleeve

Dimensions

$r_{\min}$	2 mm	Minimum chamfer dimension
D_1	164,7 mm	Bore diameter outer ring
d_2	133 mm	Raceway diameter of the inner ring
d_s	3,2 mm	Diameter lubrication hole
n_s	6,5 mm	Width of lubricating groove

Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.

Calculation factors

e	0,22	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	3,04	Dynamic axial load factor
Y_2	4,53	Dynamic axial load factor
Y_0	2,97	Static axial load factor

Additional information

H3024	Adapter sleeve
AHX3024	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