



FAG

23024-E1-XL-K-TVPB-C3 [🔗](#)

Spherical Roller Bearing

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

X-life

Informacje techniczne



Twoja aktualna wersja produktu

Design	E1	Without central rip
Bore type	K	Tapered, taper 1:12
Cage	TVPB	Plastic cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
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	3,704 kg	Masa



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



Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Obciążenie osiowe dwukierunkowe
-  Smarowanie smarem
-  Smarowanie olejem
-  Bez uszczelnienia
-  Nieosiowość statyczna
-  Nieosiowość dynamiczna