

ISO 24032 K30W33 spherical roller bearings

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Size (mm)	140x100x20
Bore Diameter (mm)	140
Outer Diameter (mm)	100
Width (mm)	20
d	100 mm
D	140 mm
B	20 mm
d1	112.3 mm
d2	112.3 mm
D1	127.7 mm
b	2.3 mm
C1	10.9 mm
C2	4 mm
C3	3.3 mm
r1,2 – min.	1.1 mm
r3,4 – min.	0.6 mm
a	26.1 mm
da – min.	106 mm
db – min.	106 mm
Da – max.	134 mm
Db – max.	136 mm
ra – max.	1 mm

rb – max.	0.6 mm
dn	115.6 mm
Basic dynamic load rating – C	60.5 kN
Basic static load rating – C0	65.5 kN
Fatigue load limit – Pu	2.6 kN
Limiting speed for grease lubrication	11000 r/min
Limiting speed for oil lubrication	17000 mm/min
Ball – Dw	12.7 mm
Ball – z	26
Gref	10.5 cm ³
Calculation factor – f0	16.3
Preload class A – GA	230 N
Preload class B – GB	460 N
Preload class C – GC	920 N
Preload class D – GD	1840 N
Calculation factor – f	1
Calculation factor – f2A	1
Calculation factor – f2B	1.07
Calculation factor – f2C	1.12
Calculation factor – f2D	1.18
Calculation factor – fHC	1.04
Preload class A	119 N/micron
Preload class B	164 N/micron
Preload class C	232 N/micron
Preload class D	340 N/micron
r1,2 min.	1.1 mm
r3,4 min.	0.6 mm
da min.	106 mm
db min.	106 mm

Da max.	134 mm
Db max.	136 mm
ra max.	1 mm
rb max.	0.6 mm
Basic dynamic load rating C	60.5 kN
Basic static load rating C0	65.5 kN
Fatigue load limit Pu	2.55 kN
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	17000 r/min
Ball diameter Dw	12.7 mm
Number of balls z	26
Reference grease quantity Gref	10.5 cm ³
Preload class A GA	230 N
Static axial stiffness, preload class A	119 N/μm
Preload class B GB	460 N
Static axial stiffness, preload class B	164 N/μm
Preload class C GC	920 N
Static axial stiffness, preload class C	232 N/μm
Preload class D GD	1840 N
Static axial stiffness, preload class D	340 N/μm
Calculation factor f	1.23
Calculation factor f1	1
Calculation factor f2A	1
Calculation factor f2B	1.07
Calculation factor f2C	1.12
Calculation factor f2D	1.18
Calculation factor fHC	1.04
Calculation factor f0	16.3
Mass bearing	0.67 kg