

FAG 61809-Y deep groove ball bearings

FAG 61809-Y deep groove ball bearings, Units and Housings 15 Outer Diameter (mm) CAD models , Manufacturing 35x15x11 Size (mm) Service . Get Your Free.

Size (mm)	35x15x11
Bore Diameter (mm)	35
Outer Diameter (mm)	15
Width (mm)	11
d	15 mm
D	35 mm
B	11 mm
d1	21.4 mm
d2	21.4 mm
D2	30.7 mm
r1,2 – min.	0.6 mm
r3,4 – min.	0.3 mm
a	11.5 mm
da – min.	19.2 mm
da – max.	20.8 mm
db – min.	19.2 mm
db – max.	20.8 mm
Da – max.	30.8 mm
Db – max.	32.6 mm
ra – max.	0.6 mm
rb – max.	0.3 mm
Basic dynamic load rating – C	7.2 kN

Basic static load rating – C ₀	3.2 kN
Fatigue load limit – P _u	0.134 kN
Limiting speed for grease lubrication	50000 r/min
Ball – D _w	6.35 mm
Ball – z	10
Calculation factor – e	0.68
Calculation factor – Y ₂	1.41
Calculation factor – Y ₀	0.76
Calculation factor – X ₂	0.67
Calculation factor – Y ₁	0.92
Preload class A – G _A	45 N
Preload class B – G _B	90 N
Preload class C – G _C	180 N
Preload class D – G _D	360 N
Calculation factor – f	1.03
Calculation factor – f ₁	0.99
Calculation factor – f _{2A}	1
Calculation factor – f _{2B}	1.01
Calculation factor – f _{2C}	1.03
Calculation factor – f _{2D}	1.06
Calculation factor – f _{HC}	1.01
Preload class A	51 N/micron
Preload class B	66 N/micron
Preload class C	86 N/micron
Preload class D	114 N/micron
r _{1,2} min.	0.6 mm
r _{3,4} min.	0.3 mm
d _a min.	19.2 mm
d _a max.	20.8 mm

db min.	19.2 mm
db max.	20.8 mm
Da max.	30.8 mm
Db max.	32.6 mm
ra max.	0.6 mm
rb max.	0.3 mm
Basic dynamic load rating C	7.15 kN
Basic static load rating C0	3.2 kN
Fatigue load limit Pu	0.134 kN
Attainable speed for grease lubrication	50000 r/min
Ball diameter Dw	6.35 mm
Number of balls z	10
Preload class A GA	45 N
Static axial stiffness, preload class A	51 N/ μ m
Preload class B GB	90 N
Static axial stiffness, preload class B	66 N/ μ m
Preload class C GC	180 N
Static axial stiffness, preload class C	86 N/ μ m
Preload class D GD	360 N
Static axial stiffness, preload class D	114 N/ μ m
Calculation factor f	1.03
Calculation factor f1	0.99
Calculation factor f2A	1
Calculation factor f2B	1.01
Calculation factor f2C	1.03
Calculation factor f2D	1.06
Calculation factor fHC	1.01
Calculation factor e	0.68
Calculation factor (single, tandem) Y2	0.87

Calculation factor (single, tandem) Y0	0.38
Calculation factor (single, tandem) X2	0.41
Calculation factor (back-to-back, face-to-face) Y1	0.92
Calculation factor (back-to-back, face-to-face) Y2	1.41
Calculation factor (back-to-back, face-to-face) Y0	0.76
Calculation factor (back-to-back, face-to-face) X2	0.67
Mass bearing	0.038 kg