

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 – C0	3.2 kN
Fatigue load limit – Pu	0.134 kN
Limiting speed for grease lubrication	50000 r/min
Ball – Dw	6.35 mm
Ball – z	10
Calculation factor – e	0.68
Calculation factor – Y2	1.41
Calculation factor – Y0	0.76
Calculation factor – X2	0.67
Calculation factor – Y1	0.92
Preload class A – GA	45 N
Preload class B – GB	90 N
Preload class C – GC	180 N
Preload class D – GD	360 N
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
Preload class A	51 N/micron
Preload class B	66 N/micron
Preload class C	86 N/micron
Preload class D	114 N/micron
r1,2 min.	0.6 mm
r3,4 min.	0.3 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	7.15 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