

AST AST800 2815 plain bearings

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Size (mm)	19x7x6
Bore Diameter (mm)	19
Outer Diameter (mm)	7
Width (mm)	6
d	7 mm
D	19 mm
B	6 mm
d1	10.4 mm
d2	9.9 mm
D1	15.7 mm
K	0.5 mm
C1	3.65 mm
r1,2 – min.	0.3 mm
r3,4 – min.	0.15 mm
a	6.1 mm
da – min.	9 mm
db – min.	9 mm
Da – max.	17 mm
Db – max.	17.6 mm
ra – max.	0.3 mm
rb – max.	0.15 mm
dn	11.4 mm

Basic dynamic load rating – C	1.9 kN
Basic static load rating – C0	0.62 kN
Fatigue load limit – Pu	0.026 kN
Limiting speed for grease lubrication	133000 r/min
Limiting speed for oil lubrication	205000 mm/min
Ball – Dw	3.572 mm
Ball – z	8
Gref	0.11 cm ³
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	17 N
Preload class B – GB	50 N
Preload class C – GC	100 N
Calculation factor – f	1.02
Calculation factor – f1	0.99
Calculation factor – f2A	1
Calculation factor – f2B	1.03
Calculation factor – f2C	1.06
Calculation factor – fHC	1.01
Preload class A	23 N/micron
Preload class B	34 N/micron
Preload class C	45 N/micron
r1,2 min.	0.3 mm
r3,4 min.	0.15 mm
da min.	9 mm
db min.	9 mm

Da max.	17 mm
Db max.	17.6 mm
ra max.	0.3 mm
rb max.	0.15 mm
Basic dynamic load rating C	1.86 kN
Basic static load rating C0	0.62 kN
Fatigue load limit Pu	0.026 kN
Attainable speed for grease lubrication	133000 r/min
Attainable speed for oil-air lubrication	205000 r/min
Ball diameter Dw	3.572 mm
Number of balls z	8
Reference grease quantity Gref	0.11 cm ³
Preload class A GA	17 N
Static axial stiffness, preload class A	23 N/μm
Preload class B GB	50 N
Static axial stiffness, preload class B	34 N/μm
Preload class C GC	100 N
Static axial stiffness, preload class C	45 N/μm
Calculation factor f	1.02
Calculation factor f1	0.99
Calculation factor f2A	1
Calculation factor f2B	1.03
Calculation factor f2C	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	0.006 kg