

ZEN SF682 deep groove ball 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	4.8 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	2 kN

Basic static load rating – C0	0.64 kN
Fatigue load limit – Pu	0.027 kN
Limiting speed for grease lubrication	150000 r/min
Limiting speed for oil lubrication	230000 mm/min
Ball – Dw	3.572 mm
Ball – z	8
Gref	0.11 cm ³
Calculation factor – f0	6.5
Preload class A – GA	10 N
Preload class B – GB	30 N
Preload class C – GC	60 N
Calculation factor – f	1
Calculation factor – f2A	1
Calculation factor – f2B	1.03
Calculation factor – f2C	1.05
Calculation factor – fHC	1.01
Preload class A	9 N/micron
Preload class B	14 N/micron
Preload class C	20 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	1.95 kN
Basic static load rating C0	0.64 kN

Fatigue load limit P_u	0.027 kN
Attainable speed for grease lubrication	150000 r/min
Attainable speed for oil-air lubrication	230000 r/min
Ball diameter D_w	3.572 mm
Number of balls z	8
Reference grease quantity G_{ref}	0.11 cm ³
Preload class A G_A	10 N
Static axial stiffness, preload class A	9 N/ μ m
Preload class B G_B	30 N
Static axial stiffness, preload class B	14 N/ μ m
Preload class C G_C	60 N
Static axial stiffness, preload class C	20 N/ μ m
Calculation factor f	1.02
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1.01
Calculation factor f_0	6.5
Mass bearing	0.006 kg