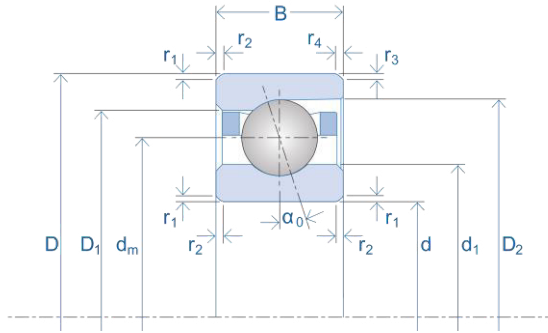


Part Number	SM 6008 C TA
Bearing Size	6008

Bearing Series	SM
Hybrid (Si ₃ N ₄ Balls)	No

Bearing Dimensions

Bore Diameter	d [mm]	40
Outer Diameter	D [mm]	68
Bearing Width	B [mm]	15
Pitch Circle	d _m [mm]	54.0
Ball Diameter	D _w [mm]	7.938
OD Inner Ring	d ₁ [mm]	49.2
ID Outer Ring	D ₁ [mm]	59.0
ID Outer Ring (Open Side)	D ₂ [mm]	61.8
Chamfer	r _{1,2} [mm]	1.0
Chamfer (Open Side)	r _{3,4} [mm]	0.6

Geometrical Data

Number of Balls	Z [Qty.]	18
Contact Angle	α ₀ [°]	15
Bearing Weight	m [kg]	0.185

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	46.0
Abutment Diameter Outer Ring	D _a max. [mm]	62.0
Chamfer Associated Component	r _a max. [mm]	1.0
Chamfer Associated Component (Open Side)	r _b max. [mm]	0.3

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	15,400
Static Radial Load Rating Steel Balls	C ₀ [N]	9,300
Static Radial Load Rating Si ₃ N ₄ balls	C _{0 HY} [N]	6,500

Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	37,000
Speed Value with Grease Lubrication	n _{grease} [1/min]	27,500

Bearing Preload Data

Light Pre-Load	F _v [N]	80
Light Axial Rigidity	C _{ax} [N/μm]	40
Medium Pre-Load	F _v [N]	230
Medium Axial Rigidity	C _{ax} [N/μm]	61
Heavy Pre-Load	F _v [N]	460
Heavy Axial Rigidity	C _{ax} [N/μm]	83
Minimum Spring Pre-Load	F _r [N]	465

Notes:

1. Position of the oiling Nozzle (d_r) for bearings with TA cage/ TXM cage upon request
2. The stated load and speed values are given for a spring preloaded single bearing with oil/air or oil mist lubrication. If specific applications differ, please consult correction factors and/or GMN USA engineers.