



Part Number	S 6213 C TA
Bearing Size	6213

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

Bearing Dimensions

Bore Diameter	d [mm]	65
Outer Diameter	D [mm]	120
Bearing Width	B [mm]	23
Pitch Circle	d _m [mm]	92.5
Ball Diameter	D _w [mm]	15.875
OD Inner Ring	d ₁ [mm]	82.8
ID Outer Ring	D ₁ [mm]	102.3
ID Outer Ring (Open Side)	D ₂ [mm]	108.5
Chamfer	r _{1,2} [mm]	1.5
Chamfer (Open Side)	r _{3,4} [mm]	1.1

Geometrical Data

Number of Balls	Z [Qty.]	16
Contact Angle	α ₀ [°]	15
Bearing Weight	m [kg]	1.008

Mating Part Dimensions

Abutment Diameter Inner Ring	d _a min. [mm]	75.0
Abutment Diameter Outer Ring	D _a max. [mm]	110.0
Chamfer Associated Component	r _a max. [mm]	1.5
Chamfer Associated Component (Open Side)	r _b max. [mm]	1.1

Bearing Load Ratings

Dynamic Radial Load Rating	C [N]	72,500
Static Radial Load Rating Steel Balls	C ₀ [N]	61,500
Static Radial Load Rating Si ₃ N ₄ balls	C _{0HY} [N]	43,500

Bearing Preload Data

Light Pre-Load	F _v [N]	370
Light Axial Rigidity	C _{ax} [N/μm]	96
Medium Pre-Load	F _v [N]	1,110
Medium Axial Rigidity	C _{ax} [N/μm]	158
Heavy Pre-Load	F _v [N]	2,220
Heavy Axial Rigidity	C _{ax} [N/μm]	225
Minimum Spring Pre-Load	F _l [N]	1,850

Bearing RPM Ratings

Speed Value with Oil Lubrication	n _{oil} [1/min]	18,500
Speed Value with Grease Lubrication	n _{grease} [1/min]	14,000

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.