

Part Number	S 61913 C TA
Bearing Size	61913

#### **Bearing Dimensions**

Bore Diameter	d [mm]	65
Outer Diameter	D [mm]	90
Bearing Width	B [mm]	13
Pitch Circle	d <sub>m</sub> [mm]	77.5
Ball Diameter	D <sub>w</sub> [mm]	7.144
OD Inner Ring	d₁ [mm]	73.1
ID Outer Ring	D1 [mm]	81.9
ID Outer Ring (Open Side)	D <sub>2</sub> [mm]	84.5
Chamfer	r <sub>1,2</sub> [mm]	1.0
Chamfer (Open Side)	r <sub>3,4</sub> [mm]	0.3

# **Bearing Load Ratings**

Dynamic Radial Load Rating	C [N]	19,500
Static Radial Load Rating Steel Balls	C <sub>0</sub> [N]	20,000
Static Radial Load Rating Si <sub>3</sub> N <sub>4</sub> balls	С <sub>0 НҮ</sub> [N]	14,000

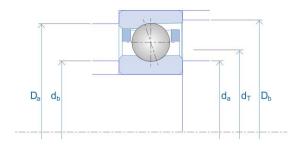
## **Bearing RPM Ratings**

Speed Value with Oil Lubrication	n <sub>oil</sub> [1/min]	22,000
Speed Value with Grease Lubrication	n <sub>grease</sub> [1/min]	16,500

#### Notes:

1. Position of the oiling Nozzle  $(d_T)$  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.



Bearing Series	S
Hybrid (Si₃N₄ Balls)	No

#### **Geometrical Data**

Number of Balls	Z [Qty.]	24
Contact Angle	α <sub>0</sub> [°]	15
Bearing Weight	m [kg]	0.207

### Mating Part Dimensions

Abutment Diameter Inner Ring	da min. [mm]	70.0
Abutment Diameter Outer Ring	Da max. [mm]	85.0
Chamfer Associated Component	r <sub>a</sub> max. [mm]	0.6
Chamfer Associated Component (Open Side)	r₀ max. [mm]	0.3

# **Bearing Preload Data**

Light Pre-Load	Fv [N]	100
Light Axial Rigidity	C <sub>ax</sub> [N/µm]	59
Medium Pre-Load	F <sub>v</sub> [N]	300
Medium Axial Rigidity	C <sub>ax</sub> [N/µm]	96
Heavy Pre-Load	F <sub>v</sub> [N]	600
Heavy Axial Rigidity	C <sub>ax</sub> [N/µm]	135
Minimum Spring Pre-Load	F <sub>f</sub> [N]	500