

Part Number	S 61911 C TA
Bearing Size	61911

## **Bearing Dimensions**

Bore Diameter	d [mm]	55
Outer Diameter	D [mm]	80
Bearing Width	B [mm]	13
Pitch Circle	d <sub>m</sub> [mm]	67.5
Ball Diameter	D <sub>w</sub> [mm]	7.144
OD Inner Ring	d₁ [mm]	63.1
ID Outer Ring	D1 [mm]	71.9
ID Outer Ring (Open Side)	D <sub>2</sub> [mm]	74.5
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]	18,400
Static Radial Load Rating Steel Balls	C <sub>0</sub> [N]	17,100
Static Radial Load Rating Si <sub>3</sub> N <sub>4</sub> balls	С <sub>0 НҮ</sub> [N]	12,100

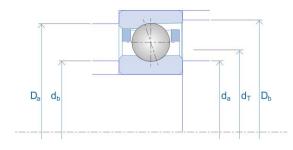
## **Bearing RPM Ratings**

Speed Value with Oil Lubrication	n <sub>oil</sub> [1/min]	25,000
Speed Value with Grease Lubrication	n <sub>grease</sub> [1/min]	18,500

#### Notes:

1. Position of the oiling Nozzle  $(d_{\rm T})$  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 (Si <sub>3</sub> N <sub>4</sub> Balls)	No

#### **Geometrical Data**

Number of Balls	Z [Qty.]	21
Contact Angle	α <sub>0</sub> [°]	15
Bearing Weight	m [kg]	0.181

### Mating Part Dimensions

Abutment Diameter Inner Ring	da min. [mm]	60.0
Abutment Diameter Outer Ring	Da max. [mm]	75.0
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]	90
Light Axial Rigidity	C <sub>ax</sub> [N/µm]	52
Medium Pre-Load	F <sub>v</sub> [N]	280
Medium Axial Rigidity	C <sub>ax</sub> [N/µm]	87
Heavy Pre-Load	F <sub>v</sub> [N]	560
Heavy Axial Rigidity	C <sub>ax</sub> [N/µm]	122
Minimum Spring Pre-Load	F <sub>f</sub> [N]	470