



|              |                   |
|--------------|-------------------|
| Part Number  | <b>S 626 C TA</b> |
| Bearing Size | 626               |

|   |    |
|---|----|
| Bearing Series                                | S  |
| Hybrid (Si <sub>3</sub> N <sub>4</sub> Balls) | No |

**Bearing Dimensions**

|                           |                       |       |
|---------------------------|-----------------------|-------|
| Bore Diameter             | d [mm]                | 6     |
| Outer Diameter            | D [mm]                | 19    |
| Bearing Width             | B [mm]                | 6     |
| Pitch Circle              | d <sub>m</sub> [mm]   | 12.5  |
| Ball Diameter             | D <sub>w</sub> [mm]   | 3.175 |
| OD Inner Ring             | d <sub>1</sub> [mm]   | 10.7  |
| ID Outer Ring             | D <sub>1</sub> [mm]   | 15.8  |
| ID Outer Ring (Open Side) | D <sub>2</sub> [mm]   | 16.5  |
| Chamfer                   | r <sub>1,2</sub> [mm] | 0.3   |
| Chamfer (Open Side)       | r <sub>3,4</sub> [mm] | 0.3   |

**Geometrical Data**

|                 |                    |       |
|-----------------|--------------------|-------|
| Number of Balls | Z [Qty.]           | 10    |
| Contact Angle   | α <sub>0</sub> [°] | 15    |
| Bearing Weight  | m [kg]             | 0.008 |

**Mating Part Dimensions**

|  |                          |      |
|--|--------------------------|------|
| Abutment Diameter Inner Ring             | d <sub>a</sub> min. [mm] | 9.0  |
| Abutment Diameter Outer Ring             | D <sub>a</sub> max. [mm] | 16.5 |
| Chamfer Associated Component             | r <sub>a</sub> max. [mm] | 0.3  |
| Chamfer Associated Component (Open Side) | r <sub>b</sub> max. [mm] | 0.15 |

**Bearing Load Ratings**

|  |                      |       |
|--|----------------------|-------|
| Dynamic Radial Load Rating                                     | C [N]                | 2,600 |
| Static Radial Load Rating Steel Balls                          | C <sub>0</sub> [N]   | 1,170 |
| Static Radial Load Rating Si <sub>3</sub> N <sub>4</sub> balls | C <sub>0HY</sub> [N] | 820   |

**Bearing Preload Data**

|                         |                        |    |
|-------------------------|------------------------|----|
| Light Pre-Load          | F <sub>v</sub> [N]     | 15 |
| Light Axial Rigidity    | C <sub>ax</sub> [N/μm] | 13 |
| Medium Pre-Load         | F <sub>v</sub> [N]     | 40 |
| Medium Axial Rigidity   | C <sub>ax</sub> [N/μm] | 20 |
| Heavy Pre-Load          | F <sub>v</sub> [N]     | 80 |
| Heavy Axial Rigidity    | C <sub>ax</sub> [N/μm] | 29 |
| Minimum Spring Pre-Load | F <sub>r</sub> [N]     | 70 |

**Bearing RPM Ratings**

|                                     |                             |         |
|-------------------------------------|-----------------------------|---------|
| Speed Value with Oil Lubrication    | n <sub>oil</sub> [1/min]    | 125,000 |
| Speed Value with Grease Lubrication | n <sub>grease</sub> [1/min] | 94,000  |

**Notes:**

1. Position of the oiling Nozzle (d<sub>r</sub>) 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.