



Part Number	<b>627</b>	
Bearing Series	Radial	
Hybrid (Si <sub>3</sub> N <sub>4</sub> Balls)	No	

#### Geometrical Data

Number of Balls	Z [Qty.]	7
Bearing Weight	m [kg]	0.012

#### Bearing Load Ratings<sup>1</sup>

Dynamic Radial Load Rating	C [N]	2,950
Static Radial Load Rating Steel Balls	C <sub>0</sub> [N]	1,160
Static Radial Load Rating Si <sub>3</sub> N <sub>4</sub> balls	C <sub>0 HY</sub> [N]	810

#### Bearing RPM Ratings<sup>2</sup>

Speed Value with Oil Lubrication	n <sub>oil</sub> [1/min]	91,125
Speed Value with Grease Lubrication	n <sub>grease</sub> [1/min]	72,900

#### Bearing Dimensions

Bore Diameter	d [mm]	7
Outer Diameter	D [mm]	22
Bearing Width	B [mm]	7
Pitch Circle	d <sub>m</sub> [mm]	14.7
Ball Diameter	D <sub>w</sub> [mm]	3.969
OD Inner Ring	d <sub>1</sub> [mm]	11.8
ID Outer Ring	D <sub>1</sub> [mm]	17.6
Chamfer	r <sub>1,2</sub> [mm]	0.3

#### Mating Part Dimensions

Abutment Diameter Inner Ring	d <sub>a</sub> min. [mm]	10.0
Abutment Diameter Outer Ring	D <sub>a</sub> max. [mm]	19.0
Chamfer Associated Component	r <sub>a</sub> max. [mm]	0.3

#### Notes:

1. The stated load ratings are given for a single bearing with grease lubrication. If specific applications differ, please consult GMN USA engineers.
2. Speed ratings are for phenolic outer land guided cage (TA). Please consult the full GMN Bearing catalog or GMN USA engineers for speed ratings of different cages.