



# GARLOCK BEARINGS LTD



3304 A-2RS1TN9/MT33 Bearing 2D drawings and 3D CAD models

## 20 mm x 52 mm x 22.2 mm SKF 3304 A-2RS1TN9/MT33 Angular Contact Ball Bearings

Bearing No. 3304 A-2RS1TN9/MT33

|                                 |                                                                                                                                                              |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category                        | Angular Contact Ball Bearings                                                                                                                                |
| Inventory                       | 0.0                                                                                                                                                          |
| Manufacturer Name               | SKF                                                                                                                                                          |
| Minimum Buy Quantity            | N/A                                                                                                                                                          |
| Weight                          | 0.229                                                                                                                                                        |
| EAN                             | 7316570786248                                                                                                                                                |
| Product Group                   | B04270                                                                                                                                                       |
| Enclosure                       | 2 Seals                                                                                                                                                      |
| Flush Ground                    | No                                                                                                                                                           |
| Rolling Element                 | Ball Bearing                                                                                                                                                 |
| Number of Rows of Balls         | Double Row                                                                                                                                                   |
| Precision Class                 | ABEC 1   ISO P0                                                                                                                                              |
| Maximum Capacity / Filling Slot | No                                                                                                                                                           |
| Snap Ring                       | No                                                                                                                                                           |
| Cage Material                   | Polyamide                                                                                                                                                    |
| Contact Angle                   | 30 Degree                                                                                                                                                    |
| Internal Clearance              | C0-Medium                                                                                                                                                    |
| Number of Bearings              | 1 (Single)                                                                                                                                                   |
| Inch - Metric                   | Metric                                                                                                                                                       |
| Long Description                | 20MM Bore; 52MM Outside Diameter; 22.2MM Width; 2 Seals; No Flush Ground; Ball Bearing; Double Row of Balls; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; |



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|                              |                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------|
|                              | C0-Medium; Polyamide Cage; 30 Degree; 1 (Si                                         |
| Other Features               | NBR Contact Seal   Glass Fibre Reinforced Cage   MT33-Lithium Soap Thickener Grease |
| Category                     | Angular Contact Ball Bearing                                                        |
| UNSPSC                       | 31171531                                                                            |
| Harmonized Tariff Code       | 8482.10.50.28                                                                       |
| Noun                         | Bearing                                                                             |
| Keyword String               | Angular Contact                                                                     |
| Manufacturer URL             | <a href="http://www.skf.com">http://www.skf.com</a>                                 |
| Manufacturer Item Number     | 3304 A-2RS1TN9/MT33                                                                 |
| Weight / LBS                 | 0.5048                                                                              |
| B                            | 0.874 Inch   22.2 Millimeter                                                        |
| d                            | 0.787 Inch   20 Millimeter                                                          |
| D                            | 2.047 Inch   52 Millimeter                                                          |
| bore diameter:               | 20 mm                                                                               |
| operating temperature range: | -40 to +210 ° F                                                                     |
| outside diameter:            | 52 mm                                                                               |
| cage material:               | Fiberglass Reinforced Nylon                                                         |
| overall width:               | 0.8750 in                                                                           |
| outer ring width:            | 22.2 mm                                                                             |
| contact angle:               | 30 °                                                                                |
| maximum rpm:                 | 9000 RPM                                                                            |
| row type & fill slot:        | Double-Row Non-Fill Slot                                                            |
| finish/coating:              | Uncoated                                                                            |
| internal clearance:          | C0                                                                                  |
| precision rating:            | Not Rated                                                                           |
| closure type:                | Double Seal                                                                         |
| fillet radius:               | 1 mm                                                                                |
| radial dynamic load          | 23.6 kN                                                                             |



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|                                         |             |
|-----------------------------------------|-------------|
| capacity:                               |             |
| series:                                 | 33          |
| radial static load capacity:            | 14.6 kN     |
| d                                       | 20 mm       |
| D                                       | 52 mm       |
| B                                       | 22.2 mm     |
| d <sub>2</sub>                          | 29.9 mm     |
| D <sub>2</sub>                          | 43.95 mm    |
| r <sub>1,2</sub> min.                   | 1.1 mm      |
| a                                       | 30 mm       |
| d <sub>a</sub> min.                     | 27 mm       |
| d <sub>a</sub> max.                     | 29.5 mm     |
| D <sub>a</sub> max.                     | 45 mm       |
| r <sub>a</sub> max.                     | 1 mm        |
| Basic dynamic load rating C             | 24.5 kN     |
| Basic static load rating C <sub>0</sub> | 15.6 kN     |
| Fatigue load limit P <sub>u</sub>       | 0.67 kN     |
| Reference speed                         | 13000 r/min |
| Limiting speed                          | 9000 r/min  |
| Calculation factor k <sub>r</sub>       | 0.07        |
| Calculation factor e                    | 0.8         |
| Calculation factor X                    | 0.63        |
| Calculation factor Y <sub>0</sub>       | 0.66        |
| Calculation factor Y <sub>1</sub>       | 0.78        |
| Calculation factor Y <sub>2</sub>       | 1.24        |
| Mass bearing                            | 0.22 kg     |