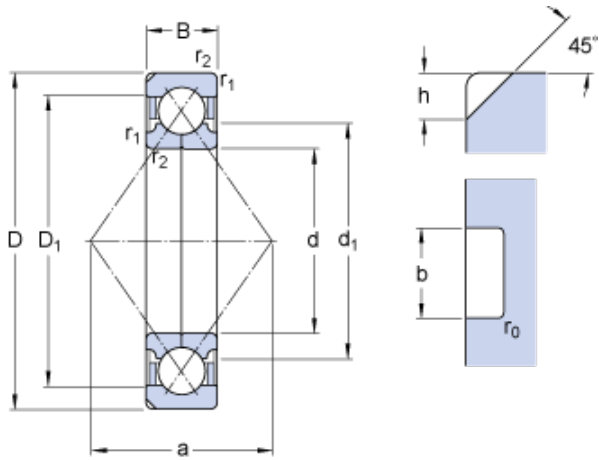




# NTN BEARUNG DRIVESHAFT, INC.



95 mm x 170 mm x 32 mm SKF QJ 219 N2MA  
angular contact ball bearings

Bearing No. QJ 219 N2MA

QJ 219 N2MA Bearing 2D drawings and 3D CAD models

|   |              |
|---|--------------|
| Size                                      | 170x95x32 mm |
| Bore Diameter                             | 170 mm       |
| Outer Diameter                            | 95 mm        |
| Width                                     | 32 mm        |
| d   | 95 mm        |
| D   | 170 mm       |
| B   | 32 mm        |
| d <sub>1</sub>                            | 120 mm       |
| D <sub>1</sub>                            | 145 mm       |
| a   | 93 mm        |
| h   | 8.1 mm       |
| b   | 6.5 mm       |
| r <sub>0</sub>                            | 1 mm         |
| r <sub>1,2</sub> - min.                   | 2.1 mm       |
| d <sub>a</sub> - min.                     | 107 mm       |
| D <sub>a</sub> - max.                     | 158 mm       |
| r <sub>a</sub> - max.                     | 2 mm         |
| Basic dynamic load rating - C             | 212 kN       |
| Basic static load rating - C <sub>0</sub> | 232 kN       |
| Fatigue load limit - P <sub>u</sub>       | 8.5 kN       |
| Reference speed                           | 4800 r/min   |
| Limiting speed                            | 6700 r/min   |
| Calculation factor - k <sub>a</sub>       | 1            |
| Calculation factor - e                    | 0.95         |



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|                                     |   |
|-------------------------------------|---|
| Calculation factor - X              | 0.6   |
| Calculation factor - Y <sub>0</sub> | 0.58  |
| Calculation factor - Y <sub>1</sub> | 0.66  |
| Calculation factor - Y <sub>2</sub> | 1.07  |
| Category                            | Angular Contact Ball Bearings   |
| Inventory                           | 0.0   |
| Manufacturer Name                   | SKF   |
| Minimum Buy Quantity                | N/A   |
| Weight / Kilogram                   | 3.31  |
| EAN                                 | 7316577108517   |
| Product Group                       | B00308  |
| Enclosure                           | Open  |
| Flush Ground                        | No  |
| Rolling Element                     | Ball Bearing  |
| Number of Rows of Balls             | Single Row  |
| Precision Class                     | ABEC 3   ISO P6   |
| Maximum Capacity / Filling Slot     | No  |
| Snap Ring                           | No  |
| Cage Material                       | Brass   |
| Contact Angle                       | 35 Degree   4 Point   |
| Internal Clearance                  | C0-Medium   |
| Number of Bearings                  | 1 (Single)  |
| Inch - Metric                       | Metric  |
| Long Description                    | 95MM Bore; 170MM Outside Diameter; 32MM Width; Open; No Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring |
| Other Features                      | Split Inner Race  |
| Category                            | Angular Contact Ball  |



## NTN BEARUNG DRIVESHAFT,INC.

|                               |   |
|-------------------------------|---|
|                               | 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      | QJ 219 N2MA   |
| Weight / LBS                  | 7.292   |
| Bore                          | 3.74 Inch   95 Millimeter                           |
| Outside Diameter              | 6.693 Inch   170 Millimeter                         |
| Width                         | 1.26 Inch   32 Millimeter                           |
| inside diameter:              | 95 mm   |
| precision rating:             | ABEC 1 (ISO Class Normal)                           |
| outside diameter:             | 170 mm  |
| cage material:                | Brass   |
| overall width:                | 32 mm   |
| maximum rpm:                  | 6700 RPM  |
| internal clearance:           | C0  |
| finish/coating:               | Uncoated  |
| closure type:                 | Open  |
| outer ring width:             | 32 mm   |
| radial dynamic load capacity: | 212 kN  |
| fillet radius:                | 2 mm  |
| radial static load capacity:  | 232 kN  |
| series:                       | QJ  |
| $d_1$                         | 120 mm  |
| $D_1$                         | 145 mm  |
| $r_0$                         | 1 mm  |
| $r_{1,2}$ min.                | 2.1 mm  |
| $d_a$ min.                    | 107 mm  |
| $D_a$ max.                    | 158 mm  |



## NTN BEARUNG DRIVESHAFT, INC.

|                                |         |
|--------------------------------|---------|
| $r_a$ max.                     | 2 mm    |
| Basic dynamic load rating C    | 212 kN  |
| Basic static load rating $C_0$ | 232 kN  |
| Fatigue load limit $P_u$       | 8.5 kN  |
| Calculation factor A           | 0.138   |
| Calculation factor e           | 0.95    |
| Calculation factor X           | 0.6     |
| Calculation factor $Y_0$       | 0.58    |
| Calculation factor $Y_1$       | 0.66    |
| Calculation factor $Y_2$       | 1.07    |
| Mass bearing                   | 3.35 kg |