



## BEARING DRIVESHAFT, INC.



140 mm x 175 mm x 18 mm skf 61828 bearing

Bearing No. 61828

61828 Bearing 2D drawings and 3D CAD models

|   |                          |
|---|--------------------------|
| Size                                      | 175x140x18 mm            |
| Bore Diameter                             | 175 mm                   |
| Outer Diameter                            | 140 mm                   |
| Width                                     | 18 mm                    |
| d   | 140 mm                   |
| D   | 175 mm                   |
| B   | 18 mm                    |
| d <sub>1</sub>                            | 150.7 mm                 |
| D <sub>2</sub>                            | 166.7 mm                 |
| r <sub>1,2</sub> - min.                   | 2.5 mm                   |
| d <sub>a</sub> - min.                     | 146 mm                   |
| D <sub>a</sub> - max.                     | 169 mm                   |
| r <sub>a</sub> - max.                     | 1 mm                     |
| Basic dynamic load rating - C             | 39 kN                    |
| Basic static load rating - C <sub>0</sub> | 46.5 kN                  |
| Fatigue load limit - P <sub>u</sub>       | 1.7 kN                   |
| Reference speed                           | 7500 r/min               |
| Limiting speed                            | 4500 r/min               |
| Calculation factor - k <sub>r</sub>       | 0.015                    |
| Calculation factor - f <sub>0</sub>       | 16                       |
| Category                                  | Single Row Ball Bearings |
| Inventory                                 | 0.0                      |
| Manufacturer Name                         | SKF                      |
| Minimum Buy Quantity                      | N/A                      |
| Weight / Kilogram                         | 0.89                     |



## BEARING DRIVESHAFT, INC.

|                                 |  |
|---------------------------------|--|
| Product Group                   | B00308   |
| Enclosure                       | Open   |
| Precision Class                 | ABEC 1   ISO P0  |
| Maximum Capacity / Filling Slot | No   |
| Rolling Element                 | Ball Bearing   |
| Snap Ring                       | No   |
| Internal Special Features       | No   |
| Cage Material                   | Steel  |
| Internal Clearance              | C0-Medium  |
| Inch - Metric                   | Metric   |
| Long Description                | 140MM Bore; 175MM Outside Diameter; 18MM Outer Race Diameter; Open; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features |
| Category                        | Single Row Ball Bearing  |
| UNSPSC                          | 31171504   |
| Harmonized Tariff Code          | 8482.10.50.68  |
| Noun                            | Bearing  |
| Keyword String                  | Ball   |
| Manufacturer URL                | <a href="http://www.skf.com">http://www.skf.com</a>  |
| Manufacturer Item Number        | 61828  |
| Weight / LBS                    | 1.97   |
| Outside Diameter                | 6.89 Inch   175 Millimeter   |
| Outer Race Width                | 0.709 Inch   18 Millimeter   |
| Bore                            | 5.512 Inch   140 Millimeter  |
| bore diameter:                  | 140 mm   |
| static load capacity:           | 46.5 kN  |
| outside diameter:               | 175 mm   |
| precision rating:               | Not Rated  |
| overall width:                  | 18 mm  |
|                                 |  |



## BEARING DRIVESHAFT, INC.

|                                |                          |
|--------------------------------|--------------------------|
| finish/coating:                | Uncoated                 |
| bore type:                     | Round                    |
| cage material:                 | Steel                    |
| closure type:                  | Open                     |
| outer ring width:              | 18 mm                    |
| row type & fill slot:          | Single Row Non-Fill Slot |
| fillet radius:                 | 1 mm                     |
| snap ring included:            | Without Snap Ring        |
| maximum rpm:                   | 4500 RPM                 |
| internal clearance:            | C0                       |
| series:                        | 61                       |
| dynamic load capacity:         | 39 kN                    |
| $d_1$                          | 150.7 mm                 |
| $D_2$                          | 166.7 mm                 |
| $r_{1,2}$ min.                 | 2.5 mm                   |
| $d_a$ min.                     | 146 mm                   |
| $D_a$ max.                     | 169 mm                   |
| $r_a$ max.                     | 1 mm                     |
| Basic dynamic load rating C    | 39 kN                    |
| Basic static load rating $C_0$ | 46.5 kN                  |
| Fatigue load limit $P_u$       | 1.66 kN                  |
| Calculation factor $k_r$       | 0.015                    |
| Calculation factor $f_0$       | 16                       |
| Mass bearing                   | 0.82 kg                  |