

# 1219 SKF Basic static load rating C0 27 kN 95x170x32mm Self aligning ball bearings

|                               |            |
|-------------------------------|------------|
| Bearing number                | 1219       |
| Size (mm)                     | 95x170x32  |
| Brand                         | SKF        |
| Bore Diameter (mm)            | 95         |
| Outer Diameter (mm)           | 170        |
| Width (mm)                    | 32         |
| d                             | 95 mm      |
| D                             | 170 mm     |
| B                             | 32 mm      |
| C                             | 32 mm      |
| d2                            | 120 mm     |
| r1 min.                       | 2.1 mm     |
| r2 min.                       | 2.1 mm     |
| D1                            | 151 mm     |
| da min.                       | 107 mm     |
| Da max.                       | 158 mm     |
| ra max.                       | 2 mm       |
| Weight                        | 3.1 Kg     |
| Basic dynamic load rating (C) | 63.7 kN    |
| Basic static load rating (C0) | 27 kN      |
| Fatigue load limit (Pu)       | 1.2        |
| Reference speed               | 8000 r/min |
| Limiting speed                | 5000 r/min |
| Calculation factor (e)        | 0.17       |

|                         |   |
|-------------------------|---|
| Calculation factor (kr) | 0.04  |
| Calculation factor (Y0) | 4   |
| Calculation factor (Y1) | 3.7   |
| Category                | Self Aligning Ball Bearings   |
| BDI Inventory           | 0.0   |
| Manufacturer Name       | SKF   |
| Minimum Buy Quantity    | N/A   |
| Weight / Kilogram       | 3.135   |
| EAN                     | 7316576605444   |
| Product Group – BDI     | B00152  |
| Mounting Method         | Shaft   |
| Enclosure               | Open  |
| Rolling Element         | Ball Bearing  |
| Cage Material           | Steel   |
| Precision Class         | ABEC 1   ISO P0   |
| Internal Clearance      | C0-Medium   |
| Number of Rows of Balls | Double Row  |
| Other Features          | Allowable Misalignment 3 Deg  |
| Long Description        | 95MM Bore; Shaft Mount; 170MM Outside Diameter; 32MM Inner Race Width; 32MM Outer Race Width; Open; Steel Cage; Double Row of Balls; ABEC 1   ISO P0; C0-Medium |
| Inch – Metric           | Metric  |
| Category – BDI          | Self Aligning Ball Bearings   |
| UNSPSC                  | 31171532  |
| Harmonized Tariff Code  | 8482.10.50.68   |
| Noun                    | Bearing   |
| Keyword String          | Self Aligning   |

|                          |   |
|--------------------------|---|
| Manufacturer URL         | <a href="http://www.skf.com">http://www.skf.com</a> |
| Manufacturer Item Number | 1219  |
| Weight / LBS             | 6.905   |
| Bore                     | 3.74 Inch   95 Millimeter                           |
| Outside Diameter         | 6.693 Inch   170 Millimeter                         |
| Outer Race Width         | 1.26 Inch   32 Millimeter                           |
| Inner Race Width         | 1.26 Inch   32 Millimeter                           |
| bore diameter:           | 95 mm   |
| precision rating:        | Not Rated   |
| outside diameter:        | 170 mm  |
| maximum rpm:             | 5000 RPM  |
| overall width:           | 32 mm   |
| cage material:           | Steel   |
| bore type:               | Straight  |
| finish/coating:          | Uncoated  |
| closure type:            | Open  |
| outer ring width:        | 32 mm   |
| internal clearance:      | C0  |
| fillet radius:           | 2 mm  |
| dynamic load capacity:   | 63.7 kN   |
| series:                  | 1200  |
| static load capacity:    | 27 kN   |
| $d_1 \approx$            | 120.4 mm  |
| $D_1 \approx$            | 148.1 mm  |
| $r_{1,2} \text{ min.}$   | 2.1 mm  |
| $d_a \text{ min.}$       | 107 mm  |
| $D_a \text{ max.}$       | 158 mm  |
| $r_a \text{ max.}$       | 2 mm  |

|   |         |
|---|---------|
| Basic dynamic load rating C               | 63.7 kN |
| Basic static load rating $C_0$            | 27 kN   |
| Fatigue load limit $P_u$                  | 1.2 kN  |
| Permissible angular misalignment $\alpha$ | 2.5 °   |
| Calculation factor $k_r$                  | 0.04    |
| Calculation factor e                      | 0.17    |
| Calculation factor $Y_0$                  | 4       |
| Calculation factor $Y_1$                  | 3.7     |
| Calculation factor $Y_2$                  | 5.7     |
| Mass bearing                              | 3.1 kg  |