



# Timken MANUFACTURING (THAILAND)CO.,LTD.



7219 BEGAM Bearing 2D drawings and 3D CAD models

## 95 mm x 170 mm x 32 mm SKF 7219 BEGAM angular contact ball bearings

Bearing No. 7219 BEGAM

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>	124.3 mm
d <sub>2</sub>	109.09 mm
D <sub>1</sub>	142.45 mm
a	72 mm
r <sub>1,2</sub> - min.	2.1 mm
r <sub>3,4</sub> - min.	1.1 mm
d <sub>a</sub> - min.	107 mm
D <sub>a</sub> - max.	158 mm
D <sub>b</sub> - max.	163 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
Basic dynamic load rating - C	129 kN
Basic static load rating - C <sub>0</sub>	118 kN
Fatigue load limit - P <sub>u</sub>	4.4 kN
Reference speed	4800 r/min
Limiting speed	4800 r/min
Calculation factor - k <sub>r</sub>	0.095



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Calculation factor - $k_a$	1.4
Calculation factor - e	1.14
Calculation factor - X	0.57
Calculation factor - $Y_0$	0.52
Calculation factor - $Y_1$	0.55
Calculation factor - $Y_2$	0.93
Calculation factor - X	0.35
Calculation factor - $Y_0$	0.26
Calculation factor - $Y_1$	
Calculation factor - $Y_2$	0.57
Category	Angular Contact Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	2.96
Product Group	B00308
Enclosure	Open
Flush Ground	Yes
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	40 Degree
Internal Clearance	C0-Medium
Number of Bearings	1 (Single)
Preload	Light
Mounting Arrangement	Universal
Inch - Metric	Metric



## Timken MANUFACTURING (THAILAND)CO.,LTD.

Long Description	95MM Bore; 170MM Outside Diameter; 32MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring
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	7219 BEGAM
Weight / LBS	6.511
Outside Diameter	6.693 Inch   170 Millimeter
Bore	3.74 Inch   95 Millimeter
Width	1.26 Inch   32 Millimeter
bore diameter:	95 mm
radial static load capacity:	118 kN
outside diameter:	170 mm
cage material:	Brass
overall width:	32 mm
outer ring width:	32 mm
contact angle:	40 °
maximum rpm:	4800 RPM
row type & fill slot:	Single-Row Non-Fill Slot
finish/coating:	Uncoated
internal clearance:	C0
precision rating:	ABEC 3 (ISO Class 6)
closure type:	Open
fillet radius:	2 mm
radial dynamic load capacity:	129 kN



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series:	72
$d_1$	124.3 mm
$d_2$	109.09 mm
$D_1$	142.45 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
$d_a$ min.	107 mm
$D_a$ max.	158 mm
$D_b$ max.	163 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
Basic dynamic load rating C	129 kN
Basic static load rating $C_0$	118 kN
Fatigue load limit $P_u$	4.4 kN
Calculation factor A	0.191
Calculation factor $k_r$	0.095
Calculation factor e	1.14
Calculation factor X	0.35
Calculation factor $Y_0$	0.26
Calculation factor $Y_2$	0.57
Calculation factor X	0.57
Calculation factor $Y_0$	0.52
Calculation factor $Y_1$	0.55
Calculation factor $Y_2$	0.93
Mass bearing	2.7 kg