



# BEARING-SINGAPORE (PTE)LTD.



90 mm x 160 mm x 30 mm SKF 7218 BECBP  
angular contact ball bearings

Bearing No. 7218 BECBP

7218 BECBP Bearing 2D drawings and 3D CAD models

Size	160x90x30 mm
Bore Diameter	160 mm
Outer Diameter	90 mm
Width	30 mm
d	90 mm
D	160 mm
B	30 mm
d <sub>1</sub>	117.1 mm
d <sub>2</sub>	103.06 mm
D <sub>1</sub>	134.8 mm
a	67 mm
r <sub>1,2</sub> - min.	2 mm
r <sub>3,4</sub> - min.	1 mm
d <sub>a</sub> - min.	101 mm
D <sub>a</sub> - max.	149 mm
D <sub>b</sub> - max.	154 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
Basic dynamic load rating - C	116 kN
Basic static load rating - C <sub>0</sub>	104 kN
Fatigue load limit - P <sub>u</sub>	4 kN
Reference speed	5000 r/min
Limiting speed	5000 r/min
Calculation factor - k <sub>r</sub>	0.095



## BEARING-SINGAPORE (PTE)LTD.

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	2.19
EAN	7316577086679
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	Polymer
Contact Angle	40 Degree
Internal Clearance	CB
Number of Bearings	1 (Single)
Mounting Arrangement	Universal
Inch - Metric	Metric



## BEARING-SINGAPORE (PTE)LTD.

Long Description	90MM Bore; 160MM Outside Diameter; 30MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 3   ISO P6; No Filling Slot; No Snap Ring
Other Features	Normal Axial Internal Clearance
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	7218 BECBP
Weight / LBS	4.828
Outside Diameter	6.299 Inch   160 Millimeter
Width	1.181 Inch   30 Millimeter
Bore	3.543 Inch   90 Millimeter
bore diameter:	90 mm
radial static load capacity:	104 kN
outside diameter:	160 mm
cage material:	Nylon
overall width:	30 mm
outer ring width:	30 mm
contact angle:	40 °
maximum rpm:	5000 RPM
row type & fill slot:	Single-Row Non-Fill Slot
finish/coating:	Uncoated
internal clearance:	C0
precision rating:	Not Rated
closure type:	Open
fillet radius:	2 mm



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radial dynamic load capacity:	116 kN
series:	72
$d_1$	117.1 mm
$d_2$	103.06 mm
$D_1$	134.8 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
$d_a$ min.	101 mm
$D_a$ max.	149 mm
$D_b$ max.	154 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
Basic dynamic load rating C	116 kN
Basic static load rating $C_0$	104 kN
Fatigue load limit $P_u$	4 kN
Calculation factor A	0.149
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	2.3 kg