



BTW 120 CTN9/SP Bearing 2D drawings and 3D CAD models

### SKF BTW 120 CTN9/SP Four-Point Contact Ball Bearings

Bearing No. BTW 120 CTN9/SP

Size	120x180x72 mm
Bore Diameter	120 mm
Outer Diameter	180 mm
Width	72 mm
d	120 mm
D	180 mm
H	72 mm
d <sub>1</sub>	155 mm
2C	36 mm
r <sub>1,2</sub> - min.	2 mm
r <sub>3,4</sub> - min.	1 mm
d <sub>a</sub> - min.	142 mm
D <sub>a</sub> - min.	169.8 mm
D <sub>a</sub> - max.	171 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
Basic dynamic load rating - C	85.2 kN
Basic static load rating - C <sub>0</sub>	280 kN
Fatigue load limit - P <sub>u</sub>	10.8 kN
Limiting speed for grease lubrication	4000 r/min
Limiting speed for oil lubrication	4800 mm/min
Preload	800 N
Static Axial rigidity	979 N/micron



## YYH Bearing&Drivetrain Co., Ltd.

G <sub>ref</sub>	28.4 cm
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	5.62
EAN	7316574830459
Product Group	B00308
Enclosure	Open
Precision Class	ABEC 5   ISO P5
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	60 Degree
Raceway Style	Not Applicable
Cage Material	Polyamide
Rolling Element	Ball Bearing
Flush Ground	No
Inch - Metric	Metric
Other Features	Double Row   Angular Contact Thrust Bearing   Double Direction
Long Description	120MM Bore; 180MM Outside Diameter; 72MM Width; Open Enclosure; ABEC 5   ISO P5 Precision; Steel Ball Material; 1 (Single) Bearing; 60 Degree Contact Angle; Polyamide Cage Material; Ball Bearing
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword 3	Thrust
Keyword String	Ball Angular Contact Thrust



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Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	BTW 120 CTN9/SP
Weight / LBS	11.13333
Width	2.835 Inch   72 Millimeter
Bore	4.724 Inch   120 Millimeter
Outside Diameter	7.087 Inch   180 Millimeter
$d_1$	155 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
$d_a$ min.	142 mm
$D_a$ min.	169.8 mm
$D_a$ max.	171 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
Basic dynamic load rating C	85.2 kN
Basic static load rating $C_0$	280 kN
Fatigue load limit $P_u$	10.8 kN
Attainable speed for grease lubrication	4000 r/min
Attainable speed for oil-air lubrication	4800 r/min
Static axial stiffness	979 N/ $\mu$ m
Reference grease quantity $G_{ref}$	28.4 cm <sup>3</sup>
Mass bearing	5.05 kg