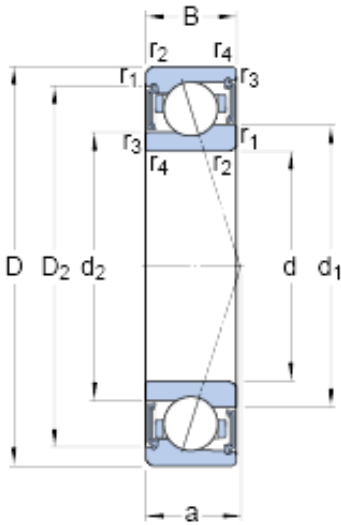




NTN Bearing Rolamentos do Brasil Ltda.



120 mm x 165 mm x 22 mm skf S71924
ACE/P4A Super-precision Angular contact ball
bearings

Bearing No. S71924 ACE/P4A

S71924 ACE/P4A Bearing 2D drawings and 3D CAD
models

Size	165x120x22 mm
Bore Diameter	165 mm
Outer Diameter	120 mm
Width	22 mm
d	120 mm
D	165 mm
B	22 mm
d ₁	134 mm
d ₂	130.2 mm
D ₂	154.4 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	46.1 mm
d _a - min.	126 mm
d _a - max.	133.4 mm
d _b - min.	123.2 mm
d _b - max.	129.6 mm
D _a - max.	159 mm
D _b - max.	161.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
Basic dynamic load rating - C	44.9 kN
Basic static load rating - C ₀	38 kN



NTN Bearing Rolamentos do Brasil Ltda.

Fatigue load limit - P_u	1.3 kN
Limiting speed for grease lubrication	9500 r/min
Ball - D_w	14.288 mm
Ball - z	24
Calculation factor - e	0.68
Calculation factor - Y_2	0.87
Calculation factor - Y_0	0.38
Calculation factor - X_2	0.41
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Preload class A - G_A	410 N
Preload class B - G_B	1220 N
Preload class C - G_C	2440 N
Calculation factor - f	1.18
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.04
Calculation factor - f_{2C}	1.07
Calculation factor - f_{HC}	1
Preload class A	207 N/micron
Preload class B	312 N/micron
Preload class C	411 N/micron
d_1	134 mm
d_2	130.2 mm
D_2	154.4 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm



NTN Bearing Rolamentos do Brasil Ltda.

d_a min.	126 mm
d_a max.	133.4 mm
d_b min.	123.2 mm
d_b max.	129.6 mm
D_a max.	159 mm
D_b max.	161.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
Basic dynamic load rating C	44.9 kN
Basic static load rating C_0	38 kN
Fatigue load limit P_u	1.32 kN
Attainable speed for grease lubrication	9500 r/min
Ball diameter D_w	14.288 mm
Number of balls z	24
Preload class A G_A	410 N
Static axial stiffness, preload class A	207 N/ μ m
Preload class B G_B	1220 N
Static axial stiffness, preload class B	312 N/ μ m
Preload class C G_C	2440 N
Static axial stiffness, preload class C	411 N/ μ m
Calculation factor f	1.18
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.07
Calculation factor f_{HC}	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single,	0.38



NTN Bearing Rolamentos do Brasil Ltda.

tandem) Y_0	
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	1.14 kg