

Technical data

32024XU

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



VISUAL (S)



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	120 mm
D - External diameter	180 mm
B - Bearing/Inner ring width	38 mm
C - Outer ring width	29 mm
T - Total width	38 mm
a - Charge load application point	39 mm
rs - Min fillet radius	2 mm
r1s - Min fillet radius	2 mm
Mass	3,29 kg
ISO 355 reference	T4DC120

PRODUCT PERFORMANCE

C - Dynamic load	272000000 mN
C0 - Static load	420000000 mN
Cu - Fatigue limit load	45500000 mN
A2 - Rating life coefficient	1
e - Coefficient	0.46
Y0 - Static axial load coefficient	0.72
Y2 - Upper axial load coefficient	1.31
N lim - Oil lubrication limit speed	15000 °/s
N lim - Grease lubrication limit speed	10800 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K



ABUTMENT

da max - Max shoulder diameter IR	132 mm
db min - Min IR shoulder diameter	131 mm
Da max - Max shoulder diameter OR	170 mm
Db min - Min OR shoulder diameter	173 mm
ra max - Max fillet radius	2 mm
r1a - Max fillet radius	2 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.5	Y0

If $P_0 \leq F_r$, then use $P_0 = F_r$

The values for e, Y2 and Y0 are shown in the above table

