

Technical data

4T-33030

Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

VISUAL (S)



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	150 mm
D - External diameter	225 mm
B - Bearing/Inner ring width	59 mm
C - Outer ring width	46 mm
T - Total width	59 mm
a - Charge load application point	48 mm
rs - Min fillet radius	3 mm
r1s - Min fillet radius	2,5 mm
Mass	8,07 kg

PRODUCT PERFORMANCE

C - Dynamic load	510000000 mN
C0 - Static load	860000000 mN
A2 - Rating life coefficient	1
e - Coefficient	0.36
Y0 - Static axial load coefficient	0.9
Y2 - Upper axial load coefficient	1.65
N lim - Oil lubrication limit speed	11400 °/s
N lim - Grease lubrication limit speed	8400 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da max - Max shoulder diameter IR	164 mm
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ABUTMENT

db min - Min IR shoulder diameter	163 mm
Da min - Min shoulder diameter OR	196 mm
Da max - Max shoulder diameter OR	213 mm
Db min - Min OR shoulder diameter	218 mm
ra max - Max fillet radius	2,5 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	Y ₂

Equivalent static radial load

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

X_0	Y_0
0.5	Y ₀

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

