

Technical data

32309U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



VISUAL (S)



PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	45 mm
D - External diameter	100 mm
B - Bearing/Inner ring width	36 mm
C - Outer ring width	30 mm
T - Total width	38,25 mm
d1 - External diameter inner ring	71,5 mm
a - Charge load application point	25,5 mm
rs - Min fillet radius	2 mm
r1s - Min fillet radius	1,5 mm
Mass	1,45 kg
ISO 355 reference	T2FD045

PRODUCT PERFORMANCE	
C - Dynamic load	170000000 mN
C0 - Static load	191000000 mN
Cu - Fatigue limit load	23300000 mN
A2 - Rating life coefficient	1
e - Coefficient	0.35
Y0 - Static axial load coefficient	0.96
Y2 - Upper axial load coefficient	1.74
N lim - Oil lubrication limit speed	31800 °/s
N lim - Grease lubrication limit speed	24000 °/s
Tmin - Min operating temperature	233,15 °K



PRODUCT PERFORMANCE

Tmax - Max operating temperature	393,15 °K
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ABUTMENT

da max - Max shoulder diameter IR	56 mm
db min - Min IR shoulder diameter	55 mm
Da min - Min shoulder diameter OR	82 mm
Da max - Max shoulder diameter OR	91,5 mm
Db min - Min OR shoulder diameter	93 mm
Ca - Min clearance	3 mm
Cb - Min clearance	8 mm
ra max - Max fillet radius	2 mm
r1a - Max fillet radius	1,5 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

