

Technical data

4T-3872/3820

Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

KIT CONTENT

4T-3872, 4T-3820

VISUAL (S)



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PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	34,925 mm
D - External diameter	85,725 mm
B - Bearing/Inner ring width	30,162 mm
C - Outer ring width	23,812 mm
T - Total width	30,162 mm
d1 - External diameter inner ring	63,5 mm
a - Charge load application point	22,062 mm
Mass	0,902 kg

PRODUCT PERFORMANCE

C - Dynamic load	116000000 mN
C0 - Static load	132000000 mN
Cu - Fatigue limit load	16100000 mN



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PRODUCT PERFORMANCE

A2 - Rating life coefficient	1
e - Coefficient	0.4
Y0 - Static axial load coefficient	0.82
Y2 - Upper axial load coefficient	1.49
N lim - Oil lubrication limit speed	36000 °/s
N lim - Grease lubrication limit speed	27000 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da max - Max shoulder diameter IR	46 mm
db min - Min IR shoulder diameter	53 mm
Da max - Max shoulder diameter OR	73 mm
Db min - Min OR shoulder diameter	81 mm
ra max - Max fillet radius	3,5 mm
r1a - Max fillet radius	3,3 mm



NTN Europe

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S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

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

