



Brand of NTN corporation

Technical data

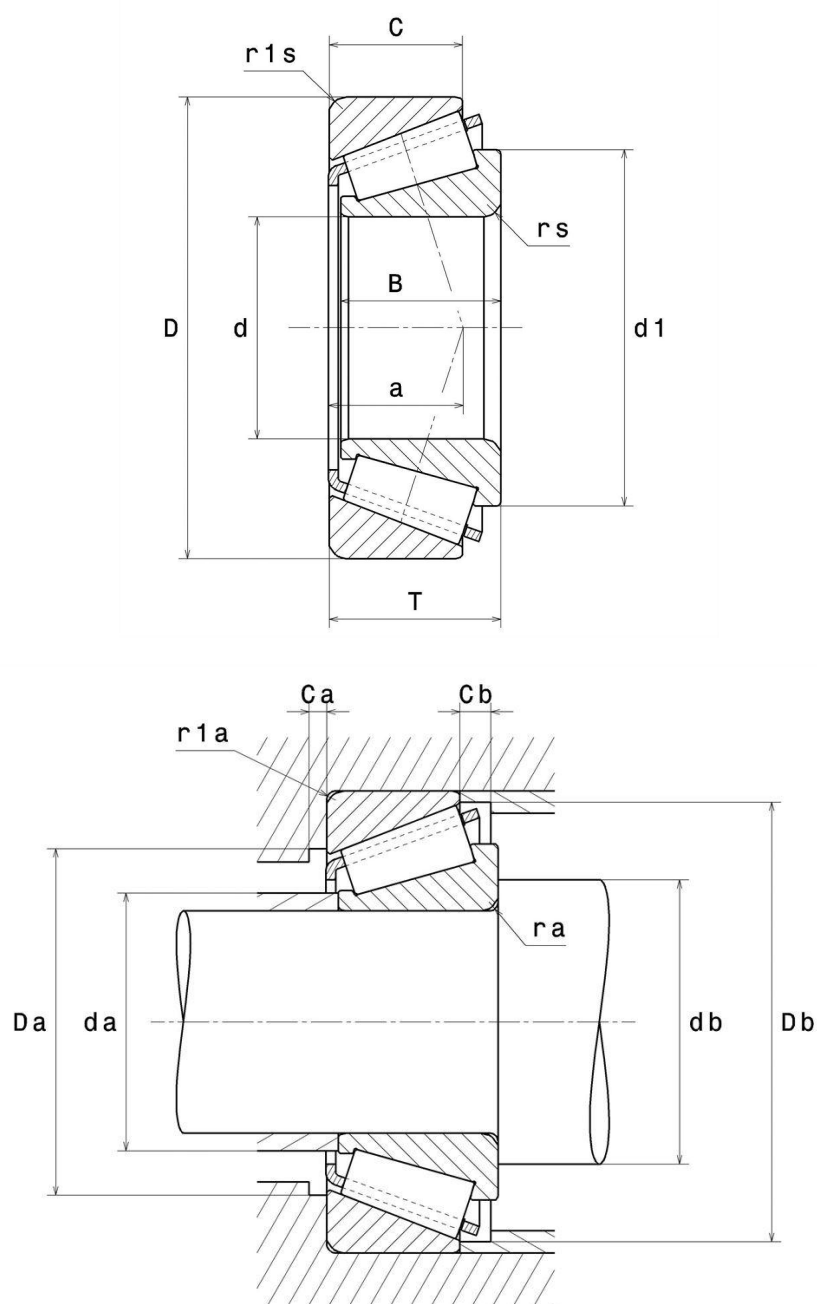
30303A

Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

VISUAL (S)



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

PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	17 mm
D - External diameter	47 mm
B - Bearing/Inner ring width	14 mm
C - Outer ring width	12 mm
T - Total width	15,25 mm
d1 - External diameter inner ring	31,2 mm
a - Charge load application point	10,4 mm
rs - Min fillet radius	1 mm
r1s - Min fillet radius	1 mm
Mass	0,13 kg
ISO 355 reference	T2FB017

PRODUCT PERFORMANCE	
C - Dynamic load	31,1 kN
A2 - Rating life coefficient	1
C0 - Static load	27,3 kN
Cu - Fatigue limit load	3,35 kN
e - Coefficient	0.29
Y0 - Static axial load coefficient	1.16
Y2 - Upper axial load coefficient	2.11
N ref - Reference thermal speed	11000 tr/min
N lim - Mechanical Limit Speed	17000 tr/min
Tmin - Min operating temperature	-40 °C



PRODUCT PERFORMANCE

Tmax - Max operating temperature	120 °C
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BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	4.646 Hz
BPFI - Over rolling frequency on inner (60 rpm)	7.354 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	4.131 Hz
BRF - Fréquence de rotation : Élément roulant	2.066 Hz
FTF - Rotational frequency - cage (60 rpm)	0.387 Hz

ABUTMENT

da max - Max shoulder diameter IR	24 mm
db min - Min IR shoulder diameter	22,5 mm
Da min - Min shoulder diameter OR	40 mm
Da max - Max shoulder diameter OR	41,5 mm
Db min - Min OR shoulder diameter	42 mm
Ca - Min clearance	3 mm
Cb - Min clearance	3,5 mm
ra max - Max fillet radius	1 mm
r1a - Max fillet radius	1 mm

ESHOPDONOTDISPLAY

Reference	30303A
Image	TRB_1.jpg, TRB_2.jpg, TRB_3.jpg
KIZEI	Non/No
TOPLINE	Non/No
ULTAGE	Non/No



ESHOPDONOTDISPLAY

Tracepart	Oui/Yes
- Contact angle	10.758 °

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

$P_o = X_o.F_r + Y_o.F_a$

X_o	Y_o
0.5	Y0

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

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

